

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: MEP4
Product Name: Metal Etch Primer
Revision Date: July 13, 2017
Version: 1.0
Supplier's Name: Aftermarket Auto Parts Alliance
Address: 2706 Treble Creek
San Antonio, Texas 78258
Emergency Phone: InfoTrac: 1-800-535-5053
210-408-4315
Contact Person: Justin Hebert
Information Phone Number: General Assistance 210-492-4868
Email: product@alliance1.com
Product/Recommended Uses: A paint or paint constituent product.

SECTION 2) HAZARDS IDENTIFICATION

Classification:

Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 2
Aspiration Hazard - Category 1
Skin Irritation - Category 2
Eye Irritation - Category 2A
Respiratory Sensitizer (Solid/Liquid) - Category 1
Skin Sensitizer - Category 1
Germ Cell Mutagenicity - Category 1B
Carcinogenicity - Category 1A
Reproductive Toxicity - Category 1B
Flammable Liquids - Category 2
Flammables solids - Category 1
Chronic aquatic toxicity - Category 3
Acute aquatic toxicity - Category 2
Acute toxicity Inhalation - Category 3
Acute toxicity Oral - Category 4

Pictograms:



Signal Word:

Danger

Hazardous Statements - Health:

May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.

Causes skin irritation
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
Harmful if swallowed.
Toxic if inhaled.

Hazardous Statements - Physical:

Highly flammable liquid and vapor.
Flammable solid.

Hazardous Statements - Environmental:

Very toxic to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary Statements - General:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Precautionary Statements - Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Keep container tightly closed.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly/hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation, wear respiratory protection.
Contaminated work clothing should not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting equipment.
Use only non-sparking tools.
Take action to prevent static discharges.
Do not eat, drink or smoke when using this product.

Precautionary Statements - Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor, if you feel unwell.
Get Medical advice/attention if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of water.
Specific treatment (see first-aid on this label).
If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing. And wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

If skin irritation or a rash occurs: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

In case of fire: Use carbon-dioxide, alcohol foam, water spray or dry chemical to extinguish.

IF SWALLOWED: Call a POISON CENTER or doctor, if you feel unwell.

Rinse mouth.

Call a POISON CENTER or doctor.

Precautionary Statements - Storage:

Store in a well-ventilated place. Store locked up.

Store locked up.

Store in a well-ventilated place. Keep cool.

Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal:

Dispose of contents/container in accordance with local/national/international regulation. Under RCRA it is the responsibility of the user of the products to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Hazards Not Otherwise Classified (HNOC):

None

Acute toxicity of less than one percent of the mixture is unknown

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000540-88-5	TERT-BUTYL ACETATE	15% - 36%
0014807-96-6	TALC	12% - 16%
0000108-88-3	TOLUENE	12% - 16%
0000110-43-0	METHYL N-AMYL KETONE	11% - 15%
0000067-64-1	ACETONE	4% - 6%
0067924-34-9	Phenol, 4-(1,1-dimethylethyl)-, polymer with 2-(chloromethyl)oxirane and 4,4'-(1methylethylidene)bis[phenol]	3% - 4%
0063148-65-2	POLYVINYL BUTYRAL RESIN	2% - 3%
0013463-67-7	TITANIUM DIOXIDE	2% - 3%
0001330-20-7	XYLENE	2% - 3%
0020344-49-4	iron oxide	2% - 2%
0014567-73-8	PM10 TREMOLITE	1% - 2%
0000117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	0.1% - 2%
0000100-41-4	ETHYLBENZENE	0.0% - 0.7%
0007631-86-9	SILICA, AMORPHOUS	0.0% - 0.3%
0014808-60-7	QUARTZ	0.0% - 0.2%
0008052-41-3	STODDARD SOLVENT	0 - 0.1 %
0000110-19-0	ISO-BUTYL ACETATE	0 - 0.1 %
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	0 - 0.1 %
0000071-36-3	N-BUTYL ALCOHOL	0 - 0.1 %
0000078-83-1	ISOBUTYL ALCOHOL	0 - 0.1 %

0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	0 - 0.1 %
0008032-32-4	NAPHTHA, VM&P	0 - 0.1 %
0009038-95-3	POLYALKYLENE GLYCOL MONOBUTYL ETHER, MOLECULAR WEIGHT 4000	0 - 0.1 %
0000108-83-8	DIISOBUTYL KETONE	0 - 0.1 %
0064742-48-9	NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)	0 - 0.1 %
0007440-47-3	CHROMIUM	0 - 0.1 %
0007440-02-0	NICKEL	0 - 0.1 %
0007440-48-4	COBALT	0 - 0.1 %
0007440-38-2	ARSENIC	0 - 0.1 %
0007440-41-7	BERYLLIUM	0 - 0.1 %

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation:

Eliminate all ignition sources if safe to do so. Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). IF exposed or concerned: Get medical advice/attention.

Skin Contact:

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a flushing duration of 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Store clothing under water and wash clothing before re-use (or discard). IF exposed or concerned: Get medical advice/attention.

Eye Contact:

Remove source of exposure. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a flushing duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER/doctor.

Ingestion:

Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. IF exposed or concerned: Get medical advice/attention.

Most important symptoms and effects, both acute and delayed:

No data available.

Indication of any immediate medical attention and special treatment needed:

No data available.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, foam, carbon dioxide water spray or fog is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable Extinguishing Media:

Do not use water jets.

Specific Hazards in Case of Fire:

Vapors may cause a flash fire or ignite explosively.

Vapors are heavier than air and may settle in low places or spread a long distance to source of ignition and flash back.

Fire-Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended Equipment:

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use explosive proof equipment. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning Up:

Contain and collect spilled materials with non-combustible, absorbent material and place in a container for disposal according to local regulations. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same physical hazards as the product.

Use non-sparking tools.

SECTION 7) HANDLING AND STORAGE

General:

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Take precautionary measures against electrostatic discharge. To avoid fire or explosion, dissipate static electricity during transfer by ground and bonding containers and equipment before transferring material.

SECTION 8) EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Use NIOSH approved air supplier full face piece or head covering respirator suitable for organic vapors/particulates as required.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
ACETONE	1000	2400			1			250	590			
ALIPHATIC, LIGHT HYDROCARBON SOLVENT	500	2000			1							
ARSENIC	a				1	1						1
BERYLLIUM	2 / 5ceiling	a	25 / 30minutes	a	1,2							
BIS(2-ETHYLHEXYL) PHTHALATE		5			1				5a		10a	1
CHROMIUM		1			1				0.5			
COBALT		0.1			1				0.05			
DIISOBUTYL KETONE	50	290			1			25	150			
ETHYLBENZENE	100	435			1			100	435	125	545	
ISO-BUTYL ACETATE	150	700			1			150	700			
ISOBUTYL ALCOHOL	100	300			1			50	150			
ISOPARAFFINIC PETROLEUM DISTILLATE	500	2000			1							
METHYL N-AMYL KETONE	100	465			1			100	465			
NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)	500	2000			1							
NAPHTHA, VM&P									350			
N-BUTYL ALCOHOL	100	300			1							

NICKEL		1			1			0.015a				
PM10 TREMOLITE					1	1						
QUARTZ	a	[10 mg/m3 percent SiO2+2 / 250 percent SiO2+5 mppcf]; [30 mg/m3 percent SiO2+2];			[1,3]; [3];			0.05e				1
SILICA, AMORPHOUS	20 (b)	80 mg/m3 percent SiO2+2			1,3			6				
STODDARD SOLVENT	500	2900			1			350				
TALC		20 mppcf			1	1						
TERT-BUTYL ACETATE	200	950			1		200	950				
TITANIUM DIOXIDE		15			1		b					1
TOLUENE	200 (a)/ 300 ceiling	0.2	500ppm /10 minutes (a)		1,2		100	375	150	560		
XYLENE	100	435			1		100	435	150	655		

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
ACETONE	250		500		A4	A4; BEI	CNS impair; URT & eye irr
ALIPHATIC, LIGHT HYDROCARBON SOLVENT							
ARSENIC		0.01			A1	A1; BEI	Lung cancer
BERYLLIUM		0.00005 (l)			A1	Skin; SEN;A1	Beryllium sens; Beryllium disease (berylliosis)
BIS(2- ETHYLHEXYL) PHTHALATE		5			A3	A3	LRT irr
CHROMIUM		0.5			A4	A4	URT & skin irr
COBALT		0.005(T)			A2	RSEN;A2	pneumoniti s
DIISOBUTYL KETONE	25	145					URT & eye irr

ETHYLBENZENE	20				A3	A3; BEI	URT irr;Kidney dam (nephropat hy); Cochlear impair
ISO-BUTYL ACETATE	50		150				Eye & URT irr
ISOBUTYL ALCOHOL	50	152					Skin & eye irr
ISOPARAFFINIC PETROLEUM DISTILLATE							
METHYL N-AMYL KETONE	50	233					Eye & skin irr
NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)							
NAPHTHA, VM&P							
N-BUTYL ALCOHOL	20						Eye & URT irr
NICKEL		1.5 (I)			A5	A5	Dermatitis; pneumoco niosis
PM10 TREMOLITE							
QUARTZ		0.025 (R)			A2	A2	Pulmonary fibrosis; lung cancer
SILICA, AMORPHOUS							
STODDARD SOLVENT	100	572					Eye, skin, & kidney dam; nausea; CNS impair
TALC	0.1 f/cc (F) (K)	2 (E,R)			[A1]; [A4];	[A1]; [A4];	[LRT irr]; [Pneumoco niosis; lung cancer; mesothelio ma];
TERT-BUTYL ACETATE	50		150				Eye & URT irr
TITANIUM DIOXIDE		10			A4	A4	LRT irr
TOLUENE	20	0.2			A4	A4; BEI	Visual impair; female repro; pregnancy loss
XYLENE	100	434	150	651	A4	A4; BEI	URT & eye irr; CNS imampir

(F) - Respirable fibers, (I) - Inhalable fraction, (K) - Should not exceed 2 mg/m³ respirable particulate mass, (R) - Respirable fraction, A1 - Confirmed Human Carcinogen, A2 - Suspected Human Carcinogen, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, A5 - Not Suspected as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, dam - Damage, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, repro - reproductive, sens - sensitization, URT - Upper respiratory tract

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	7.91 lb/gal
% Solids By Weight	36.78%
Density VOC	4.51 lb/gal
% VOC	57.08%
Specific Gravity	0.95

Appearance	Viscous Liquid	
Odor Threshold	N/A Odor Description	
Pungent		
pH	N/A	
Water Solubility	N/A	
Flammability	N/A	
Flash Point	<-18 °C	
Viscosity	N/A	
Lower Explosion Level	N/A Upper Explosion Level	
	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Freezing Point	N/A	
Melting Point	N.A.	
Low Boiling Point	>35 °C	
High Boiling Point	N/A Auto Ignition Temp	
	N/A	
Decomposition Pt	N/A Evaporation Rate	N/A
Coefficient Water/Oil	N/A	

SECTION 10) STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Conditions to Avoid:

Avoid heat, sparks, open flames and other sources of ignition.

Hazardous Reactions/Polymerization:

No data available.

Incompatible Materials:

Strong oxidizing agents

Hazardous Decomposition Products:

Oxides of carbon.

SECTION 11) TOXICOLOGICAL INFORMATION

Likely route of exposure:

Inhalation, ingestion, skin contact, eye contact, skin absorption.

Skin Corrosion/Irritation:

Causes skin irritation

Serious Eye Damage/Irritation:

Causes serious eye irritation.

Respiratory/Skin Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Germ Cell Mutagenicity:

May cause genetic defects.

Carcinogenicity:

May cause cancer.

Reproductive Toxicity:

May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure:

May cause drowsiness or dizziness

Specific Target Organ Toxicity - Repeated Exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard:

May be fatal if swallowed and enters airways

Acute Toxicity:

Harmful if swallowed.

Toxic if inhaled.

0000100-41-4 ETHYLBENZENE

LC50 (inhalation, rat): 4000 ppm; 4-hour exposure (3)

LD50 (oral, rat): 3.5 g/kg (1,3,5,10)

LD50 (oral, rat): 4.72 g/kg (3,5,7,8)

LD50 (dermal, rabbit): 17.8 g/kg (11)

0001330-20-7 XYLENE

LC50 (rat): 6350 ppm (4-hour exposure) (unspecified isomers and ethylbenzene) (1) LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene) (2) ethylbenzene) (1)

LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene)(2)

LD50 (oral, rat): 5400 mg/kg (52% m-, 19% o-, 24% p-) (1) LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3)

LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3)

0000108-88-3 TOLUENE

LC50 (rat): 8800 ppm (4-hour exposure) (2)

LC50 (rat): 6000 ppm (6-hour exposure) (3)

LD50 (oral, rat): 2600 to 7500 mg/kg (3,5,11,17)

LD50 (oral, neonatal rat): less than 870 mg/kg (3)

LD50 (dermal, rabbit): 12,225 mg/kg (reported as 14.1 ml/kg) (1)

0000071-36-3 N-BUTYL ALCOHOL
LC50 (rat): greater than 8000 ppm (4-hour exposure) (14)
LD50 (oral, rat): 2510 mg/kg (15)
LD50 (oral, male rat): 790 mg/kg (16)*
LD50 (oral, female rat): 2020 mg/kg (16)* *(Note: the rats used in this study appear to have been very young (60-100 grams).)
LD50 (oral, hamster): 1200 mg/kg (11, original)

0000078-83-1 ISOBUTYL ALCOHOL
LD50 (oral, rat): 2460 mg/kg.(7)
LD50 (oral, rabbit): 3000 mg/kg (reported as 41 mmol/kg) (8)
LD50 (dermal, rabbit): 3400 mg/kg (reported as 4.24 mL/kg).(7)

0000110-43-0 METHYL N-AMYL KETONE
LC100 (rat): 4,000 ppm (4-hour exposure) (8)
LD50 (oral, female rat): 1,670 mg/kg (8)
LD50 (oral, mouse): 730 mg/kg (3; not confirmed)
LD50 (oral, mouse): 2,390 mg/kg; reported as 21.08 mmol/kg (7)
LD50 (dermal, rabbit): 10,300 mg/kg; reported as 12.6 mL/kg (8)

0000110-19-0 ISO-BUTYL ACETATE
LC50 (rat): approximately 8000 ppm (4-hour exposure); 4 out of 6 rats died (3)
LD50 (oral, rat): 13400 mg/kg (cited as 15.4 mL/kg) (1)
LD50 (oral, rabbit): 4800 mg/kg (cited as 41 mmol/kg) (4)
LD50 (dermal, rabbit): Greater than 5000 mg/kg (1)

0000067-64-1 ACETONE
LC50 (male rat): 30000 ppm (4-hour exposure); cited as 71000 mg/m3 (4-hour exposure) (29)
LC50 (male mouse): 18600 ppm (4-hour exposure); cited as 44000 mg/m3 (4-hour exposure) (29)
LD50 (oral, female rat): 5800 mg/kg (24)
LD50 (oral, mature rat): 6700 mg/kg (cited as 8.5 mL/kg) (31)
LD50 (oral, newborn rat): 1750 mg/kg (cited as 2.2 mL/kg) (31)
LD50 (oral, mouse): 3000 mg/kg (32,unconfirmed)
LD50 (dermal, rabbit): Greater than 16000 mg/kg cited as 20 mL/kg) (30)

0008052-41-3 STODDARD SOLVENT
LC50 (rat): greater than 5500 mg/m3 (880 ppm) (whole body exposure for 4 hours) (1)
LC50 (rat): greater than 8200 mg/m3 (1300 ppm) (2)
LD50 (oral, rat): greater than 5 g/kg (1)
LD50 (dermal, rabbit): greater than 3 g/kg (1)

0007440-38-2 ARSENIC
LC50 (Invertebrate - daphnia, Chemical added to tank with water (dissolved in water)) : 2850 ug/L (48 hours exposure) Toxic effects : Details of toxic effects not reported other than lethal dose value.
LD50 (Rodent - rat, Oral): 763 mg/kg, Toxic effects: Behavioral - ataxia Gastrointestinal - hypermotility, diarrhea
LD50 (Rodent - mouse, Oral) : 145 mg/kg, Toxic effects : Behavioral - ataxia Gastrointestinal -hypermotility, diarrhea
LD50 (Rodent - mouse, Oral) : 144 mg/kg, Toxic effects : Details of toxic effects not reported other than lethal dose value.

0000117-81-7 BIS(2-ETHYLHEXYL)PHTHALATE
LD50 (oral, rat):30 gm/kg
LD50(oral,mouse): 1500 mg/kg

0000108-83-8 DIISOBUTYL KETONE
LD50 (oral, rat): 5800 mg/kg (1)
LD50 (oral, mouse): 1416 mg/kg (2; original report unpublished)
LD50 (oral, mouse): 2800 mg/kg (3)
LD50 (dermal, rabbit): 1600 mg/kg (1)

Potential Health Effects - Miscellaneous

0000067-64-1 ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

0000071-36-3 N-BUTYL ALCOHOL

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

0000078-83-1 ISOBUTYL ALCOHOL

Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause irritation of the mucous membranes. May cause abnormal liver function. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: bone marrow, liver. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns.

0000100-41-4 ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. WARNING: This chemical is known to the State of California to cause cancer.

0000108-83-8 DIISOBUTYL KETONE

The following medical conditions may be aggravated by exposure: asthma, blood, dermatitis. Contact may cause skin irritation with discomfort or rash. Repeated exposure may cause allergic skin rash, itching, swelling. This substance may cause damage to any of the following organs/systems: eyes, kidneys, liver. Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count. Liquid or vapor causes irritation, experienced as stinging, excess blinking and tear production, with excess redness and swelling of the conjunctiva.

0000108-88-3 TOLUENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

0000540-88-5 TERT-BUTYL ACETATE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, eyes, gastrointestinal system, liver, skin.

0001330-20-7 XYLENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

0013463-67-7 TITANIUM DIOXIDE

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m³ respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m³ level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or xray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

0014808-60-7 QUARTZ

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to x-ray changes and chronic lung disease. Inhalation of high dust concentrations may cause: breathing difficulties, lung injury. WARNING: This chemical is known to the State of California to cause cancer.

0064742-48-9 NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

0064742-89-8 ALIPHATIC, LIGHT HYDROCARBON SOLVENT

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

Chronic Exposure

0000100-41-4 ETHYLBENZENE

CARCINOGENIC EFFECTS: Ethyl Benzene has been listed by IARC as Group 2B, Possibly Carcinogenic to Humans.

TERATOGENIC EFFECTS: Ethyl Benzene has been Classified as POSSIBLE for humans.

0000108-88-3 TOLUENE

TERATOGENIC EFFECTS:Toluene has been Classified as POSSIBLE for humans.

0001330-20-7 XYLENE

High exposure to Xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus.

Xylene in high concentrations has caused embryotoxic effects in laboratory animals.

0014808-60-7 QUARTZ

Prolonged inhalation of respirable crystalline silica dust can result in lung disease (i.e. silicosis and/or lung cancer). Symptoms include coughing, shortness of breath, wheezing and reduced pulmonary function.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Persistence and Degradability:

No data available.

Bio-accumulative Potential:

No data available.

Mobility in soil:

No data available.

Other Adverse Effect:

No data available.

Bio-accumulative Potential

0000067-64-1 ACETONE

Does not bioaccumulate

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Contains constituents with the potential to bio accumulate.

Persistence and Degradability

0000067-64-1 ACETONE

91% readily biodegradable, Method: OECD Test Guideline 301B

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Expected to be inherently biodegradable. The volatile constituents will oxidize rapidly by photochemical reactions in air.

Mobility in Soil

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Floats on water. Contains volatile constituents. Evaporates within a day from water or soil surfaces. Large volumes may penetrate soil and could contaminate groundwater.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

UN number: UN1992

Proper shipping name: Flammable liquids, toxic, n.o.s. (ACETONE, ALIPHATIC, LIGHT HYDROCARBON SOLVENT, ARSENIC, BERYLLIUM, ETHYLBENZENE, ISO-BUTYL ACETATE, METHYL N-AMYL KETONE, NAPHTHA, VM&P, POLYALKYLENE GLYCOL MONOBUTYL ETHER, MOLECULAR WEIGHT 4000, TERT-BUTYL ACETATE, TOLUENE, XYLENE)

Hazard class: 3

Packaging group: II

Hazardous substance (RQ): No data available

Toxic-Inhalation Hazard: No data available

Marine Pollutant: No data available

Note / Special Provision: No data available

IMDG Information:

UN number: UN1992

Proper shipping name: Flammable liquids, toxic, n.o.s. (ACETONE, ALIPHATIC, LIGHT HYDROCARBON SOLVENT, ARSENIC, BERYLLIUM, ETHYLBENZENE, ISO-BUTYL ACETATE, METHYL N-AMYL KETONE, NAPHTHA, VM&P, POLYALKYLENE GLYCOL MONOBUTYL ETHER, MOLECULAR WEIGHT 4000, TERT-BUTYL ACETATE, TOLUENE, XYLENE)

Hazard class: 3

Packaging group: II

Marine Pollutant: No data available

Note / Special Provision: No data available

IATA Information:

UN number: UN1992

Hazard class: 3

Packaging group: II

Proper shipping name: Flammable liquids, toxic, n.o.s. (ACETONE, ALIPHATIC, LIGHT HYDROCARBON SOLVENT, ARSENIC, BERYLLIUM, ETHYLBENZENE, ISO-BUTYL ACETATE, METHYL N-AMYL KETONE, NAPHTHA, VM&P, POLYALKYLENE GLYCOL MONOBUTYL ETHER, MOLECULAR WEIGHT 4000, TERT-BUTYL ACETATE, TOLUENE, XYLENE)

Note / Special Provision: No data available

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000540-88-5	TERT-BUTYL ACETATE	15% - 36%	SARA312,VOC,TSCA
0014807-96-6	TALC	12% - 16%	SARA312,IARCCarcinogen,TSCA
0000108-88-3	TOLUENE	12% - 16%	SARA313, SARA312,VOC,IARCCarcinogen,TSCA,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Develop - CA_Proposition65_Type_Toxicity_Developmental
0000110-43-0	METHYL N-AMYL KETONE	11% - 15%	SARA312,VOC,TSCA

0000067-64-1	ACETONE	4% - 6%	SARA312,VOC_exempt,TSCA
0067924-34-9	Phenol, 4-(1,1dimethylethyl)-, polymer with 2-(chloromethyl) oxirane and 4,4'-(1methylethylidene)bis [phenol]	3% - 4%	SARA312,TSCA
0063148-65-2	POLYVINYL BUTYRAL RESIN	2% - 3%	SARA312,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0013463-67-7	TITANIUM DIOXIDE	2% - 3%	SARA312,IARCCarcinogen,TSCA,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer
0001330-20-7	XYLENE	2% - 3%	SARA313, SARA312,VOC,IARCCarcinogen,TSCA
0020344-49-4	iron oxide	2% - 2%	SARA312,TSCA
0014567-73-8	PM10 TREMOLITE	1% - 2%	SARA312
0000117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	0.1% - 2%	SARA313, SARA312,VOC,IARCCarcinogen,NTPCarcinogen,TSCA,REACH_SVHC - REACH_Substances of Very High Concern,REACH_SVHC_ToxicForReproduction - REACH_Substances of Very High Concern_Toxic for Reproduction,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer,CA_Prop65_Type_Toxicity_Develop - CA_Proposition65_Type_Toxicity_Developmental,CA_Prop65_Type_Toxicity_Male - CA_Proposition65_Type_Toxicity_Male
0000100-41-4	ETHYLBENZENE	0.0% - 0.7%	SARA313, SARA312,VOC,IARCCarcinogen,TSCA,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer
0007631-86-9	SILICA, AMORPHOUS	0.0% - 0.3%	SARA312,IARCCarcinogen,TSCA
0014808-60-7	QUARTZ	0.0% - 0.2%	SARA312,IARCCarcinogen,NTPCarcinogen,TSCA,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer
0008052-41-3	STODDARD SOLVENT	0 - 0.1 %	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0000110-19-0	ISO-BUTYL ACETATE	0 - 0.1 %	SARA312,VOC,TSCA
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	0 - 0.1 %	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0000071-36-3	N-BUTYL ALCOHOL	0 - 0.1 %	SARA313, SARA312,VOC,TSCA
0000078-83-1	ISOBUTYL ALCOHOL	0 - 0.1 %	SARA312,VOC,TSCA
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	0 - 0.1 %	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0008032-32-4	NAPHTHA, VM&P	0 - 0.1 %	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0009038-95-3	POLYALKYLENE GLYCOL MONOBUTYL ETHER, MOLECULAR WEIGHT 4000	0 - 0.1 %	SARA312,TSCA
0000108-83-8	DIISOBUTYL KETONE	0 - 0.1 %	SARA312,VOC,TSCA

0064742-48-9	NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)	0 - 0.1 %	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0007440-47-3	CHROMIUM	0 - 0.1 %	SARA312,IARCCarcinogen,TSCA
0007440-02-0	NICKEL	0 - 0.1 %	SARA312,IARCCarcinogen,NTPCarcinogen,TSCA,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer
0007440-48-4	COBALT	0 - 0.1 %	SARA312,IARCCarcinogen,TSCA,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer
0007440-38-2	ARSENIC	0 - 0.1 %	SARA312,IARCCarcinogen,TSCA
0007440-41-7	BERYLLIUM	0 - 0.1 %	SARA312,IARCCarcinogen,TSCA,SARA313_PBT - SARA313_Persistent, Bioaccumulative, and Toxic (PBT) Chemicals ,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer

SECTION 16) OTHER INFORMATION

Glossary:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

Version 1.0:

Revision Date: Sep 08, 2016
First Edition.

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