

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID: .48516
Product Name: 6 BASE INDUSTRIAL METAL ENAMEL
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Version: 1.0 **Supersedes Date:** N.A.
Manufacturer's Name: Repolite Paints, Inc.
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SECTION 2) HAZARDS IDENTIFICATION

Classification

Flammable Liquids - Category 1
 Acute toxicity Inhalation Vapor - Category 4
 Acute toxicity Oral - Category 5
 Aspiration Hazard - Category 1
 Carcinogenicity - Category 1B
 Eye Irritation - Category 2
 Germ Cell Mutagenicity - Category 1B
 Reproductive Toxicity - Category 1B
 Skin Irritation - Category 2
 Skin Sensitizer - Category 1
 Specific Target Organ Toxicity - Repeated Exposure - Category 2
 Acute aquatic toxicity - Category 2
 Chronic aquatic toxicity - Category 2

Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Pictograms



Signal Word

Danger

Hazardous Statements - Physical

H224 - Extremely flammable liquid and vapor

Hazardous Statements - Health

H332 - Harmful if inhaled
H303 - May be harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H350 - May cause cancer
H319 - Causes serious eye irritation
H340 - May cause genetic defects.
H360 - May damage fertility or the unborn child
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H373 - May cause damage to organs through prolonged or repeated exposure.

Hazardous Statements - Environmental

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

Precautionary Statements - Prevention

P273 - Avoid release to the environment.
P271 - Use only outdoors or in a well-ventilated area.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing, eye protection/face protection.
P264 - Wash thoroughly after handling.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take action to prevent static discharges.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

Precautionary Statements - Response

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER/doctor if you feel unwell.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 - Do NOT induce vomiting.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.
P391 - Collect spillage.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P370 + P378 - In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P321 - For specific treatment see section 4.

P362 + P364 - Take off contaminated clothing. And wash it before reuse.

P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention.

P314 - Get Medical advice/attention if you feel unwell.

Precautionary Statements - Storage

P405 - Store locked up.

P403 + P235 - Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

P501 - Dispose of contents/container to disposal recycling center. 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.

Acute toxicity of 39.5% of the mixture is unknown

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0037244-96-5	NEPHELINE SYENITE	10% - 23%
0064742-49-0	VM & P NAPHTHA	10% - 23%
0068410-97-9	LACQUER DILUENT NAPHTHA	8% - 19%
0001330-20-7	XYLENE	3% - 7%
0000100-41-4	ETHYLBENZENE	0.1% - 2%
0001335-30-4	ALUMINUM SILICATE HYDRATE	0.1% - 1.7%
0001314-13-2	ZINC OXIDE	0.1% - 1.6%
0000142-82-5	N-HEPTANE	0.1% - 1.5%
0000111-65-9	OCTANE	0.1% - 1.5%
0091313-01-8	Non-Hazardous, Solid	0.1% - 1.4%
0064742-94-5	AROMATIC HYDROCARBON MIXTURE >C9	0.1% - 0.9%
0000108-93-0	CYCLOHEXANOL	0.1% - 0.9%
0008052-41-3	STODDARD SOLVENT	0.1% - 0.9%
0000136-51-6	CALCIUM 2-ETHYLHEXANOATE	0.0% - 0.7%
0000136-52-7	COBALT OCTATE	0.0% - 0.4%
0000096-29-7	2-BUTANONE OXIME	0.0% - 0.4%
0000111-46-6	DIETHYLENE GLYCOL	0.0% - 0.2%
0064742-82-1	NAPHTHA (PETROLEUM) HYDRODESULFURIZED	Trace
0000107-98-2	PROPYLENE GLYCOL MONOMETHYL ETHER	Trace
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	Trace
0064742-48-9	NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)	Trace
0000095-63-6	1,2,4-TRIMETHYLBENZENE	Trace
0012001-85-3	ZINC NAPHTHANATE	Trace
0025265-78-5	TETRAPROPYLENE BENZENE	Trace
0000108-67-8	MESITYLENE	Trace
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	Trace
0000136-53-8	zinc 2-ethylhexanoate	Trace
0014808-60-7	SILICA, CRYSTALLINE	Trace
0000149-57-5	2-ETHYLHEXANOIC ACID	Trace
0000079-09-4	PROPIONIC ACID	Trace
0000098-82-8	CUMENE	Trace

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

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed or unwell : Call a POISON CENTER/doctor

Skin Contact

Take off immediately contaminated clothing. Rinse skin with water/shower and mild soap for 5 minutes or until product is removed. Store contaminated clothing under water and wash before re-use or discard.

Eye Contact

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 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. If you feel unwell or are 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, or carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. 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.

Unsuitable Extinguishing Media

No data available.

Specific Hazards in Case of Fire

Vapors are heavier than air and may travel along the ground to ignition sources at locations distant from material handling point.

Vapor accumulations and spray mist may flash or explode if ignited.

Closed containers may rupture due to pressure buildup when exposed to extreme heat.

Dried solids can burn.

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-face piece 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. 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

Absorb spill with inert absorbent.

Dike area to contain spill.

SECTION 7) HANDLING AND STORAGE

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 containers 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.

Ground and bond containers and receiving equipment. Avoid static electricity by grounding.

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.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

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.

Appropriate Engineering Controls

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

A suitable, NIOSH-approved respirator and goggles should be worn when standing or grinding objects coated with this paint.

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	ACGIH TWA (ppm)
1,2,4-TRIMETHYLBE								10

NZENE								
2-ETHYLHEXANOIC ACID								
ALIPHATIC, LIGHT HYDROCARBON SOLVENT	500	2000			1			(L)[N159](L)[N800]
ALUMINUM SILICATE HYDRATE								
AROMATIC HYDROCARBON MIXTURE >C9	500	2000			1			(L)[N159](L)[N800]
CUMENE	50	245			1		1	5
CYCLOHEXANOL	50	200			1			50
ETHYLBENZENE	100	435			1			20
LACQUER DILUENT NAPHTHA	500	2000			1			
MESITYLENE								10
NAPHTHA (PETROLEUM) HYDRODESULFURIZED	500	2000			1			(L)
NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)	500	2000			1			(L)[N159](L)[N800]
N-HEPTANE	500	2000			1			400
OCTANE	500	2350			1			300
PROPIONIC ACID								10
PROPYLENE GLYCOL MONOMETHYL ETHER								50
SILICA, CRYSTALLINE	a	[10 mg/m3 percent SiO2+2 / 250 percent SiO2+5 mppcf]; [30 mg/m3 percent SiO2+2];			[1,3]; [3];			
STODDARD SOLVENT	500	2900			1			100
VM & P NAPHTHA	500	2000			1			(L)
XYLENE	100	435			1			20
ZINC OXIDE		[15]; [5];			1			

Chemical Name	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
1,2,4-TRIMETHYLBENZENE				A4		CNS impair; hematologic eff
2-	5 (IFV)					Teratogenic eff

ETHYLHEXANOIC ACID						
ALIPHATIC, LIGHT HYDROCARBON SOLVENT	[(L)[N159](L)[N800]]; [5 (I)[N159]5 (I)[N800]];			[A2[N159]A2[N800]]; [A4[N159]A4[N800]];	[A2[N159]A2[N800]]; [A4[N159]A4[N800]];	URT irr [N159]URT irr [N800]
ALUMINUM SILICATE HYDRATE	1 (R)			A4	A4	Pneumoconiosis; LRT irr; neurotoxicity
AROMATIC HYDROCARBON MIXTURE >C9	[(L)[N159](L)[N800]]; [5 (I)[N159]5 (I)[N800]];			[A2[N159]A2[N800]]; [A4[N159]A4[N800]];	[A2[N159]A2[N800]]; [A4[N159]A4[N800]];	URT irr [N159]URT irr [N800]
CUMENE				A3	A3	URT adenoma; neurological eff
CYCLOHEXANOL					Skin	Eye irr; CNS impair
ETHYLBENZENE				A3	OTO;BEI	URT & eye irr; ototoxicity; kidney eff; CNS impair
LACQUER DILUENT NAPHTHA						
MESITYLENE						CNS impair; hematologic eff
NAPHTHA (PETROLEUM) HYDRODESULFURIZED	[(L)]; [5 (I)];			[A2]; [A4];	[A2]; [A4];	URT irr
NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)	[(L)[N159](L)[N800]]; [5 (I)[N159]5 (I)[N800]];			[A2[N159]A2[N800]]; [A4[N159]A4[N800]];	[A2[N159]A2[N800]]; [A4[N159]A4[N800]];	URT irr [N159]URT irr [N800]
N-HEPTANE		500				CNS impair; URT irr
OCTANE						URT irr
PROPIONIC ACID						Eye, Skin, & URT irr
PROPYLENE GLYCOL MONOMETHYL ETHER		100		A4	A4	Eye & URT irr
SILICA, CRYSTALLINE	0.025 (R)			A2	A2	Pulmonary fibrosis; lung cancer
STODDARD SOLVENT	[(L)]; [5 (I)];			[A2]; [A4];	[A2]; [A4];	Eye, skin, & kidney dam; nausea; CNS impair
VM & P NAPHTHA	[(L)]; [5 (I)];			[A2]; [A4];	[A2]; [A4];	URT irr
XYLENE						Eye irr & URT irr, hemotologic effects; CNS impair
ZINC OXIDE	2 (R)		10 (R)			Metal fume fever

(IFV) - Inhalable fraction and vapor, (L) - Exposure by all routes should be carefully controlled to levels as low as possible, (R) - Respirable fraction, A2 - Suspected Human Carcinogen, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, CNS - Central nervous system, dam - Damage, eff - Effects, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, URT - Upper respiratory tract

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	8.70365 lb/gal
% Solids By Weight	59.10020%
% VOC	40.86880%
Density VOC	3.55708 lb/gal
VOC Regulatory	3.54867 lb/gal
VOC Regulatory	425.23700 g/l

Appearance	N/A
Odor Threshold	N/A
Odor Description	N/A
pH	N/A
Water Solubility	N/A
Flammability	N/A
Flash Point Symbol	N/A
Flash Point	N/A
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	N/A
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

Chemical Stability

Stable.

Possibility of Hazardous Reactions/Polymerization

No data available.

Conditions To Avoid

Excessive heat.

Incompatible Materials

Strong oxidizers.

Hazardous Decomposition Products

May produce fumes when heated to decomposition.

Fumes may contain carbon monoxide and carbon dioxide.

Likely route of exposure

Ingestion, Inhalation, Skin absorption

Skin Corrosion/Irritation

Causes skin irritation

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

The substance and the vapour in high concentrations can be irritating to the skin.

0000111-46-6 DIETHYLENE GLYCOL

May cause mild skin irritation.

Serious Eye Damage/Irritation

Causes serious eye irritation

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

The substance and the vapour in high concentrations can be irritating to the eyes.

0000142-82-5 N-HEPTANE

Can irritate the eyes.

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

Vapor is a mild eye irritant.

Respiratory/Skin Sensitization

May cause an allergic skin reaction

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

The substance and the vapour in high concentrations can be irritating to the respiratory tract.

0000142-82-5 N-HEPTANE

Repeated exposure may cause skin rash, dryness and redness.

Germ Cell Mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer

Reproductive Toxicity

May damage fertility or the unborn child

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

The NOAEL for paternal toxicity is 300 ppm and for offspring toxicity is 1000 ppm. The NOAEL for maternal and fetotoxicity was considered to be 1500 ppm. Effects appear secondary to parental weight loss.

Specific Target Organ Toxicity - Single Exposure

Based on available data, the classification criteria are not met.

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

Exposure to very high concentrations could cause depression of the central nervous system.

0000111-46-6 DIETHYLENE GLYCOL

Ingestion may cause effects on the central nervous system, the liver, and the kidneys (including kidney impairment).

0000142-82-5 N-HEPTANE

May affect the nervous system.

Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs through prolonged or repeated exposure.

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

The substance defats the skin, which may cause dryness or cracking. Prolonged exposure to vapors may cause coughing, shortness of breath, dizziness and intoxication.

0064742-49-0 VM & P NAPHTHA

Repeated exposure may cause skin dryness or cracking. Repeated exposure affects the nervous system

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Aspiration Hazard

May be fatal if swallowed and enters airways

0064742-49-0 VM & P NAPHTHA

Harmful by ingestion (may cause lung damage by aspiration).

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

If liquid is swallowed, it may get into lungs by aspiration

Acute Toxicity

Harmful if inhaled

May be harmful if swallowed

0000111-46-6 DIETHYLENE GLYCOL

Ingestion can lead to death.

0000142-82-5 N-HEPTANE

Exposure can cause headache, lightheadedness, dizziness, lack of coordination and loss of consciousness.

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

Inhalation of high concentrations can cause CNS depression; Ingestion can cause aspiration into the lungs.

0064742-49-0 VM & P NAPHTHA

May cause Central Nervous System (CNS) depression

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

High concentration of vapors may cause intoxication

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

The substance can be absorbed into the body by inhalation of its aerosol or vapour, through the skin and by ingestion.

0000111-46-6 DIETHYLENE GLYCOL

Ingestion.

0000142-82-5 N-HEPTANE

Can be absorbed into the body by inhalation of its vapor, through the skin and by ingestion.

0064742-49-0 VM & P NAPHTHA

Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

Chronic Exposure

0000098-82-8 CUMENE

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

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.

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 SILICA, CRYSTALLINE

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.

Potential Health Effects - Miscellaneous

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.

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

0000142-82-5 N-HEPTANE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, respiratory system, skin. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. 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. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

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.

0014808-60-7 SILICA, CRYSTALLINE

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.

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

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.

0064742-95-6 AROMATIC HYDROCARBON MIXTURE >C9

The following medical conditions may be aggravated by exposure: skin disorders. 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.

0000079-09-4 PROPIONIC ACID

LD50 (oral, rat): 4270 mg/kg (6)

LD50 (oral, rat): 2600 mg/kg (7, unconfirmed)

LD50 (dermal, rabbit): 500 mg/kg (6)

0000095-63-6 1,2,4-TRIMETHYLBENZENE

LC50 (rat): 18 g/m3 (4-hour exposure) (1)

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

0000098-82-8 CUMENE

LC50 (inhalation, mouse): 10 mg/L; (2000 ppm); 7-hr exposure (1,3)

LC50 (inhalation, rat): 39 mg/L (8000 ppm); 4-hr exposure (1,3,6)

LD50 (oral, rat): Reported as 1.4 g/kg and 2.26 g/kg (1,3,4)

LD50 (skin, rabbit): 10627 mg/kg (4)

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)

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

LC50 (rat): 15000 ppm; 4-hr exposure (2)
LC50 (guinea pig): 15000 ppm; 10-hr exposure (2)
LD50 (oral, rat): 6.6 g/kg (5.2-7.5 g/kg) (10)
LD50 (oral, mouse): 10.7-10.8 g/kg (2,12)
LD50 (oral, dog): 4.6-5.5 g/kg (2); approximately 9.2 g/kg (2)
LD50 (oral, rabbit): 5.2-5.3 g/kg (2,12)
LD50 (dermal, rabbit): 13-14 g/kg (10)

0000108-67-8 MESITYLENE

LC50 (rat): 24 g/m3 (4-hour exposure) (2)

0000108-93-0 CYCLOHEXANOL

LD50 (oral, rat): 2.06 g/kg (9)

0001314-13-2 ZINC OXIDE

LD50 (oral, mouse): 7950 mg/kg body weight (9)

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)

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)

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

LC50 (Rodent - rat, Inhalation) : >590 mg/m3 (4 hour exposure) Toxic effects : Details of toxic effects not reported other than lethal dose value.
LD50 (Rodent - rabbit, Administration onto the skin) : >2 mL/kg ,Toxic effects : Behavioral - somnolence (general depressed activity) Behavioral - changes in motor activity (specific assay) Behavioral - irritability

0000142-82-5 N-HEPTANE

LC50 (rat): approximately 25000 ppm (4-hour exposure); cited as 103 g/m3 (4-hour exposure) (6)
LD50 (oral, rat): Greater than 15000 mg/kg (4)

0000111-65-9 OCTANE

LC50 (rat): 28,438 ppm (118,000 mg/m3); 4-hr exposure (unconfirmed).(10)

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

0001314-13-2 ZINC OXIDE

LC50 (Crustacean - Daphnia magna, 48 hrs) : 0.098 mg/l, type of exposure : static

Persistence and Degradability

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

Readily biodegradable in water. Half-life in air = 3.1 hours.

0000111-46-6 DIETHYLENE GLYCOL

Readily biodegradable.

0001330-20-7 XYLENE

50% of applied radiolabelled o-xylene was mineralised in 23 days, and 50% p-xylene was mineralised in 13 days.

0064742-49-0 VM & P NAPHTHA

Expected to be readily biodegradable

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

Readily biodegradable

Bioaccumulative Potential

0000111-46-6 DIETHYLENE GLYCOL

Bioaccumulation is not expected.

0064742-49-0 VM & P NAPHTHA

Has the potential to bioaccumulate.

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

Has the potential to bioaccumulate.

Mobility in Soil

0064742-49-0 VM & P NAPHTHA

If it enters soil, it will adsorb to soil particles and will not be mobile

Other Adverse Effects

No data available.

Results of the PBT and vPvB assessment

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

The substance is not PBT / vPvB.

0000111-46-6 DIETHYLENE GLYCOL

The substance is not PBT / vPvB.

0000142-82-5 N-HEPTANE

The substance is not PBT / vPvB.

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

The substance is not PBT / vPvB.

0064742-49-0 VM & P NAPHTHA

The substance is not PBT / vPvB.

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

Proper Shipping Name: PAINT
Identification Number : UN/NA 1263
Hazard Class:3
Packing group: II

IMDG Information

Proper Shipping Name: PAINT
Identification Number : UN/NA 1263
Hazard Class:3
Packing group: II

IATA Information

Proper Shipping Name: PAINT
 Identification Number : UN/NA 1263
 Hazard Class:3
 Packing group: II

SECTION 15) REGULATORY INFORMATION**REGULATORY INFORMATION**

TSCA Inventory: All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List: All components of this product are listed on the Domestic Substances List

CAS	Chemical Name	% By Weight	Regulation List
proprietary	alkyd resin	26% - 43%	SARA312
0037244-96-5	NEPHELINE SYENITE	10% - 23%	DSL, SARA312
0064742-49-0	VM & P NAPHTHA	10% - 23%	DSL, SARA312
0068410-97-9	LACQUER DILUENT NAPHTHA	8% - 19%	DSL, SARA312
0001330-20-7	XYLENE	3% - 7%	SARA313, Canada_NPRI, DSL, HAPS, SARA312, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
NA-ERAEnviro	STRONTIUM AND COMPOUNDS	3% - 7%	SARA312
0000100-41-4	ETHYLBENZENE	0.1% - 2%	SARA313, Canada_NPRI, DSL, HAPS, SARA312, CA_Carcinogen, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS, CA_Prop65 - California Proposition 65, CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer
0001335-30-4	ALUMINUM SILICATE HYDRATE	0.1% - 1.7%	DSL, SARA312
0001314-13-2	ZINC OXIDE	0.1% - 1.6%	SARA313, Canada_NPRI, DSL, SARA312
0000142-82-5	N-HEPTANE	0.1% - 1.5%	Canada_NPRI, DSL, SARA312
0000111-65-9	OCTANE	0.1% - 1.5%	Canada_NPRI, DSL, SARA312, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0091313-01-8	Non-Hazardous, Solid	0.1% - 1.4%	DSL, SARA312
0064742-94-5	AROMATIC HYDROCARBON MIXTURE >C9	0.1% - 0.9%	Canada_NPRI, DSL, SARA312
0000108-93-0	CYCLOHEXANOL	0.1% - 0.9%	SARA313, Canada_NPRI, DSL, SARA312, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0008052-41-3	STODDARD SOLVENT	0.1% - 0.9%	Canada_NPRI, DSL, SARA312, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000136-51-6	CALCIUM 2-ETHYLHEXANOATE	0.0% - 0.7%	DSL, SARA312
0000136-52-7	COBALT OCTATE	0.0% - 0.4%	SARA313, Canada_NPRI, DSL, HAPS, SARA312
0000096-29-7	2-BUTANONE OXIME	0.0% - 0.4%	DSL, SARA312
0000111-46-6	DIETHYLENE GLYCOL	0.0% - 0.2%	DSL, SARA312
0064742-82-1	NAPHTHA (PETROLEUM) HYDRODESULFURIZED	Trace	DSL, SARA312
0000107-98-2	PROPYLENE GLYCOL MONOMETHYL ETHER	Trace	Canada_NPRI, DSL, SARA312, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	Trace	Canada_NPRI, DSL, SARA312
0064742-48-9	NAPHTHA, HEAVY HYDROTREATED	Trace	Canada_NPRI, DSL, SARA312

	(PETROLEUM)		
0000095-63-6	1,2,4-TRIMETHYLBENZENE	Trace	SARA313, Canada_NPRI, DSL, SARA312
0012001-85-3	ZINC NAPHTHANATE	Trace	SARA313, Canada_NPRI, DSL, SARA312
0025265-78-5	TETRAPROPYLENE BENZENE	Trace	SARA312
0000108-67-8	MESITYLENE	Trace	Canada_NPRI, DSL, SARA312
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	Trace	Canada_NPRI, DSL, SARA312
0000136-53-8	zinc 2-ethylhexanoate	Trace	Canada_NPRI, DSL, SARA312
0014808-60-7	SILICA, CRYSTALLINE	Trace	DSL, SARA312, CA_Carcinogen, CA_Prop65 - California Proposition 65, CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer
0000149-57-5	2-ETHYLHEXANOIC ACID	Trace	DSL, SARA312
0000079-09-4	PROPIONIC ACID	Trace	DSL, SARA312, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000098-82-8	CUMENE	Trace	SARA313, Canada_NPRI, DSL, HAPS, SARA312, CA_Carcinogen, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS, CA_Prop65 - California Proposition 65, CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer

The information in this Section does not list non-hazardous components that might have relevant DSL, SARA312 regulatory values, if they are present at less than 1%. Please contact manufacturer for more information.



WARNING: This product can expose you to chemicals including ETHYLBENZENE, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16) OTHER INFORMATION

General

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.

HMIS

Health	1 / 2
FLAMMABILITY	3
Physical Hazard	0
Personal Protection	X

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

DISCLAIMER

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