

## SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

**Product ID:** K-2211

**Product Name:** GREY OAK GLAZE

**Revision Date:** Oct 14, 2019 **Date Printed:** Oct 14, 2019

**Version:** 1.0 **Supersedes Date:** N.A.

**Manufacturer's Name:** Repolite Paints, Inc.

**Address:** 473 West 17th Street Holland, MI, US, 49423

**Emergency Phone:** 800-535-5053

**Information Phone Number:** 616-396-1275

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## SECTION 2) HAZARDS IDENTIFICATION

### Classification

Acute aquatic toxicity - Category 2

Aspiration Hazard - Category 1

Carcinogenicity - Category 1B

Chronic aquatic toxicity - Category 2

Flammable Liquids - Category 2

Germ Cell Mutagenicity - Category 1B

Reproductive Toxicity - Category 2

Serious Eye Damage - Category 1

Skin Irritation - Category 2

Skin Sensitizer - Category 1

Specific Target Organ Toxicity - Repeated Exposure - Category 1

Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) - Category 3

### Pictograms



### Signal Word

Danger

### Hazardous Statements - Physical

H225 - Highly flammable liquid and vapor

### Hazardous Statements - Health

H304 - May be fatal if swallowed and enters airways

H350 - May cause cancer

H340 - May cause genetic defects.

H361 - Suspected of damaging fertility or the unborn child  
H318 - Causes serious eye damage  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H336 - May cause drowsiness or dizziness

#### **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.  
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.  
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.  
P264 - Wash thoroughly after handling.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.

#### **Precautionary Statements - Response**

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.  
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.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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.  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 - Call a POISON CENTER/doctor if you feel unwell.

### Precautionary Statements - Storage

P405 - Store locked up.

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

P403 + P405 - Store in a well-ventilated place. Store locked up.

### 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 less than one percent of the mixture is unknown

## SECTION 3) COMPOSITION, INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	23% - 38%
0013463-67-7	TITANIUM DIOXIDE	11% - 26%
0014807-96-6	TALC	11% - 25%
0064742-88-7	MEDIUM MINERAL SPIRITS	3% - 6%
0008052-41-3	STODDARD SOLVENT	0.1% - 2%
0001309-37-1	FERRIC OXIDE	0.1% - 2.0%
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	0.1% - 1.8%
0000071-36-3	N-BUTYL ALCOHOL	0.1% - 1.8%
0000078-83-1	ISOBUTYL ALCOHOL	0.1% - 1.8%
0008032-32-4	NAPHTHA, VM&P	0.1% - 1.7%
0014808-60-7	SILICA, CRYSTALLINE	0.0% - 0.7%
0001333-86-4	CARBON BLACK	0.0% - 0.6%
0063231-67-4	SILICA GEL	0.0% - 0.5%
NA-DegussaCorp	NJSTR 56705700001-5384P	0.0% - 0.4%
NA-DegussaCorp	NJTSR 56705700001-5055P	0.0% - 0.4%
0001317-34-6	MANGANESE TRIOXIDE	0.0% - 0.3%
0001308-38-9	CHROMIUM(III) OXIDE (2:3)	0.0% - 0.3%
0001330-20-7	XYLENE	0.0% - 0.3%
0051274-00-1	YELLOW IRON OXIDE	0.0% - 0.3%
0000100-41-4	ETHYLBENZENE	0.0% - 0.2%
0064742-48-9	NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)	0.0% - 0.2%
0000096-29-7	2-BUTANONE OXIME	0.0% - 0.2%
0064742-82-1	NAPHTHA (PETROLEUM) HYDRODESULFURIZED	Trace
0000110-19-0	ISO-BUTYL ACETATE	Trace
0022464-99-9	ZIRCONIUM OCTOATE	Trace
UNKNOWN	COBALT SOAP	Trace
0000108-88-3	TOLUENE	Trace
0000123-86-4	BUTYL ACETATE	Trace
0000108-65-6	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	Trace
0026264-05-1	SURFACTANT	Trace
0061791-12-6	CREMOPHOR EL	Trace
0007727-43-7	BARIUM SULFATE	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

### 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 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.

## 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.

### 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 sanding 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)
ALIPHATIC, LIGHT HYDROCARBO	500	2000			1			(L)[N159](L)[N800]

N SOLVENT							
BARIUM SULFATE		[15]; [5 (a)];			1		
BUTYL ACETATE	150	710			1		50
CARBON BLACK		3.5			1		
CHROMIUM(III) OXIDE (2:3)		0.5			1		
ETHYLBENZENE	100	435			1		20
FERRIC OXIDE		[10]; [15]; [5];			1		
ISO-BUTYL ACETATE	150	700			1		50
ISOBUTYL ALCOHOL	100	300			1		50
ISOPARAFFINIC PETROLEUM DISTILLATE	500	2000			1		(L)[N159](L)[N800]
MANGANESE TRIOXIDE		5 ceiling			1		
MEDIUM MINERAL SPIRITS							(L)[N159](L)[N800]
NAPHTHA (PETROLEUM) HYDRODESULFURIZED	500	2000			1		(L)
NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)	500	2000			1		(L)[N159](L)[N800]
NAPHTHA, VM&P							(L)
N-BUTYL ALCOHOL	100	300			1		20
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
TALC		20 mppcf			1	1	0.1 f/cc (F) (K)
TITANIUM DIOXIDE		15			1		
TOLUENE	200 (a)/ 300 ceiling	0.2	500ppm /10 minutes (a)		1,2		20
XYLENE	100	435			1		100
ZIRCONIUM OCTOATE		5			1		

Chemical Name	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
ALIPHATIC, LIGHT HYDROCARBON SOLVENT	[(L)[N159](L)[N800]]; [5 (I)[N159]5 (I)[N800]]; [5 (I)[N159]5 (I)[N800]];			[A2[N159]A2[N800]]; [A4[N159]A4[N800]]; [A4[N159]A4[N800]];	[A2[N159]A2[N800]]; [A4[N159]A4[N800]];	URT irr [N159]URT irr [N800]

BARIUM SULFATE	5 (I)(E )					Pneumoconiosis
BUTYL ACETATE		150				Eye & URT irr
CARBON BLACK	3 (I)			A3	A3	Bronchitis
CHROMIUM(III) OXIDE (2:3)	0.003 (I)			A4	A4; DSEN; RSEN	Resp tract irr; asthma
ETHYLBENZENE				A3	A3; BEI	URT irr; Kidney dam (nephropathy); Cochlear impair
FERRIC OXIDE	5 (R)			A4	A4	Pneumoconiosis
ISO-BUTYL ACETATE		150				Eye & URT irr
ISOBUTYL ALCOHOL						Skin & eye irr
ISOPARAFFINIC PETROLEUM DISTILLATE	[(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]
MANGANESE TRIOXIDE	0.02 (R), 0.1 (I)					CNS impair
MEDIUM MINERAL SPIRITS	[(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]
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]
NAPHTHA, VM&P	[(L)]; [5 (I)];			[A2]; [A4];	[A2]; [A4];	URT irr
N-BUTYL ALCOHOL						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
TALC	2 (E,R)			[A1]; [A4];	[A1]; [A4];	Pulm fibrosis; Pulm func
TITANIUM DIOXIDE	10			A4	A4	LRT irr
TOLUENE				A4	A4; BEI	Visual impair; female repro; pregnancy loss
XYLENE		150		A4	A4; BEI	URT & eye irr; CNS impair
ZIRCONIUM OCTOATE	5		10	A4	A4	Resp irr

(C) - Ceiling limit, (F) - Respirable fibers, (I) - Inhalable fraction, (K) - Should not exceed 2 mg/m3 respirable particulate mass, (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, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, dam - Damage, DSEN - Dermal sensitization, func - Function, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, pulm - Pulmonary, repro - reproductive, resp - respiratory, RSEN - Respiratory sensitization, URT - Upper respiratory tract

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

Density	9.63309 lb/gal
% Solids By Weight	59.82700%
% VOC	39.59900%
Density VOC	3.81461 lb/gal
VOC Regulatory	3.85560 lb/gal
VOC Regulatory	462.01600 g/l

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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

### Stability

Stable.

### Conditions to Avoid

Excessive heat.

### Hazardous Reactions/Polymerization

No data available.

### 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

0000071-36-3 N-BUTYL ALCOHOL

Can irritate and burn the skin.

0000108-88-3 TOLUENE

Contact can irritate the skin.

0000123-86-4 BUTYL ACETATE

May cause effects on the central nervous system.

**Serious Eye Damage/Irritation**

Causes serious eye damage

0000071-36-3 N-BUTYL ALCOHOL

Can irritate and burn the eyes.

0000078-83-1 ISOBUTYL ALCOHOL

Contact with eyes is extremely irritating and may cause burns.

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

Can irritate the eyes.

0000108-88-3 TOLUENE

Contact can irritate the eyes.

0000123-86-4 BUTYL ACETATE

Can severely irritate and burn the skin.

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

The vapour is mildly irritating to the eyes.

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

Vapor is a mild eye irritant.

**Respiratory/Skin Sensitization**

May cause an allergic skin reaction

0000071-36-3 N-BUTYL ALCOHOL

Can irritate the nose, throat and lungs. May cause dryness or cracking.

0000078-83-1 ISOBUTYL ALCOHOL

Can irritate the skin causing a rash. Breathing can irritate the nose, mouth and throat causing coughing and wheezing.

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

Can irritate the respiratory tract.

0000108-88-3 TOLUENE

Inhaling can irritate the nose and throat.

0000110-19-0 ISO-BUTYL ACETATE

The substance defats the skin, which may cause dryness or cracking.

0000123-86-4 BUTYL ACETATE

Can severely irritate and burn the eyes.

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

The substance defats the skin, which may cause dryness or cracking.

**Germ Cell Mutagenicity**

May cause genetic defects.

**Carcinogenicity**

May cause cancer

### Reproductive Toxicity

Suspected of damaging fertility or the unborn child

0000123-86-4 BUTYL ACETATE

Can irritate the respiratory tract.

### Specific Target Organ Toxicity - Single Exposure

May cause drowsiness or dizziness

0000071-36-3 N-BUTYL ALCOHOL

Exposure can cause headache, dizziness, nausea and vomiting. Can damage the liver and kidneys.

0000078-83-1 ISOBUTYL ALCOHOL

Exposure can cause headache, dizziness, drowsiness, confusion and loss of coordination. It may affect the liver.

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

Exposure at high levels could cause depression of the central nervous system. ( Short-term exposure).

0000108-88-3 TOLUENE

May affect the nervous system causing headache, dizziness and passing out.

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

May cause effects on the central nervous system.

### Specific Target Organ Toxicity - Repeated Exposure

Causes damage to organs through prolonged or repeated exposure.

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

The substance defats the skin, which may cause dryness or cracking (Repeated exposure).

0000108-88-3 TOLUENE

Repeated exposure may cause liver, kidney and brain damage.

0000110-19-0 ISO-BUTYL ACETATE

The vapour is mildly irritating to the eyes and respiratory tract. The substance may cause effects on the central nervous system. Exposure far above the OEL could cause lowering of consciousness.

### Aspiration Hazard

May be fatal if swallowed and enters airways

0000078-83-1 ISOBUTYL ALCOHOL

If swallowed, aspiration into the lungs may result in chemical pneumonitis.

### Acute Toxicity

0000078-83-1 ISOBUTYL ALCOHOL

If swallowed, aspiration into the lungs may result in chemical pneumonitis.

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

If swallowed, can easily enter the airways and could result in aspiration pneumonitis.

If swallowed, can easily enter the airways and could result in aspiration pneumonitis. Inhalation of high concentrations may cause dizziness, anesthesia, unconsciousness.

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

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

### Potential Health Effects - Miscellaneous

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.

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

Recurrent overexposure may result in liver and kidney injury.

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.

0000123-86-4 BUTYL ACETATE

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

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.

0001333-86-4 CARBON BLACK

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease. WARNING: This chemical is known to the State of California to cause cancer.

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/m<sup>3</sup> 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/m<sup>3</sup> 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 x-ray 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 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.

0064742-88-7 MEDIUM MINERAL SPIRITS

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. This substance may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, lungs, reproductive system, skin. 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.

0001333-86-4 CARBON BLACK

CARCINOGENIC EFFECTS: In 1996, the IARC reevaluated Carbon Black as a Group 2B carcinogen. This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence.

Prolonged inhalation of Carbon black can result in lung disease. Symptoms include coughing, shortness of breath, wheezing and reduced pulmonary function.

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.

## Likely Routes of Exposure

0000071-36-3 N-BUTYL ALCOHOL

Can be absorbed into the body by inhalation of its vapour and by ingestion.

0000078-83-1 ISOBUTYL ALCOHOL

The substance can be absorbed into the body by inhalation of its vapour and by ingestion.

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

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

0000108-88-3 TOLUENE

The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

0000110-19-0 ISO-BUTYL ACETATE

The substance can be absorbed into the body by inhalation of its vapour.

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

The substance can be absorbed into the body by inhalation of its vapour and by ingestion.

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)

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)

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)

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)

0000123-86-4 BUTYL ACETATE

LC50 (rat): 1802 mg/m<sup>3</sup>; 4-hour exposure (aerosol)(9) Note: A lower LC50 (aerosol) value of 760 mg/m<sup>3</sup> (160 ppm); 4-hour exposure has been reported.(11,27) Extensive research has failed to confirm this value.

LD50 (oral, rat): 10770 mg/kg (12, unconfirmed)

LD50 (oral, mouse): 7100 mg/kg (5)

LD50 (oral, rabbit): 7400 mg/kg (cited as 64 millimols/kg) (13)

LD50 (dermal, rabbit): Greater than 5000 mg/kg (3, unconfirmed)

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/m<sup>3</sup> (880 ppm) (whole body exposure for 4 hours) (1)

LC50 (rat): greater than 8200 mg/m<sup>3</sup> (1300 ppm) (2)

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

LD50 (dermal, rabbit): greater than 3 g/kg (1)

## SECTION 12) ECOLOGICAL INFORMATION

### Bio-accumulative Potential

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

Substance has a low potential for bioaccumulation, Log Kow < 1.

Substance has a low potential for bioaccumulation, Log Kow = 1.2.

0000110-19-0 ISO-BUTYL ACETATE

No potential for bioaccumulation.

### Persistence and Degradability

0000071-36-3 N-BUTYL ALCOHOL

Readily biodegradable.

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

Readily biodegradable.

0000110-19-0 ISO-BUTYL ACETATE

Readily biodegradable.

0000123-86-4 BUTYL ACETATE

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.

0001333-86-4 CARBON BLACK

Carbon Black's insolubility in water results in it not being biodegradable in any medium or by biota. It is considered persistent in the natural environment.

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.

### Toxicity

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

0000123-86-4 BUTYL ACETATE

Readily biodegradable

### Other adverse effects

No data available.

## Results of the PBT and vPvB assessment

0000071-36-3 N-BUTYL ALCOHOL

The substance is not PBT/vPvB

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

The substance is not PBT / vPvB.

0000123-86-4 BUTYL ACETATE

The substance is not PBT / vPvB

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

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  
Marine Pollutant : No data available

### 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
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	23% - 38%	Canada_NPRI,DSL,SARA312
0013463-67-7	TITANIUM DIOXIDE	11% - 26%	DSL,SARA312,CA_Carcinogen
0014807-96-6	TALC	11% - 25%	DSL,SARA312,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0064742-88-7	MEDIUM MINERAL SPIRITS	3% - 6%	Canada_NPRI,DSL,SARA312
0008052-41-3	STODDARD SOLVENT	0.1% - 2%	Canada_NPRI,DSL,SARA312,WI_N

			R438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0001309-37-1	FERRIC OXIDE	0.1% - 2.0%	DSL,SARA312
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	0.1% - 1.8%	Canada_NPRI,DSL,SARA312
0000071-36-3	N-BUTYL ALCOHOL	0.1% - 1.8%	SARA313, Canada_NPRI,DSL,SARA312,WI_N R438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000078-83-1	ISOBUTYL ALCOHOL	0.1% - 1.8%	Canada_NPRI,DSL,SARA312,WI_N R438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0008032-32-4	NAPHTHA, VM&P	0.1% - 1.7%	Canada_NPRI,DSL,SARA312
0014808-60-7	SILICA, CRYSTALLINE	0.0% - 0.7%	DSL,SARA312,CA_Carcinogen
0001333-86-4	CARBON BLACK	0.0% - 0.6%	DSL,SARA312,CA_Carcinogen,WI_N R438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0063231-67-4	SILICA GEL	0.0% - 0.5%	DSL,SARA312
NA-DegussaCorp	NJSTR 56705700001-5384P	0.0% - 0.4%	SARA312
NA-DegussaCorp	NJTSR 56705700001-5055P	0.0% - 0.4%	SARA312
0001317-34-6	MANGANESE TRIOXIDE	0.0% - 0.3%	SARA313, Canada_NPRI,DSL,HAPS,SARA312, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0001308-38-9	CHROMIUM(III) OXIDE (2:3)	0.0% - 0.3%	SARA313, Canada_NPRI,DSL,HAPS,SARA312, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0001330-20-7	XYLENE	0.0% - 0.3%	SARA313, Canada_NPRI,DSL,HAPS,SARA312, WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0051274-00-1	YELLOW IRON OXIDE	0.0% - 0.3%	DSL,SARA312
0000100-41-4	ETHYLBENZENE	0.0% - 0.2%	SARA313, Canada_NPRI,DSL,HAPS,SARA312, CA_Carcinogen,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0064742-48-9	NAPHTHA, HEAVY HYDROTREATED (PETROLEUM)	0.0% - 0.2%	Canada_NPRI,DSL,SARA312
0000096-29-7	2-BUTANONE OXIME	0.0% - 0.2%	DSL,SARA312
0064742-82-1	NAPHTHA (PETROLEUM) HYDRODESULFURIZED	Trace	DSL,SARA312
0000110-19-0	ISO-BUTYL ACETATE	Trace	Canada_NPRI,DSL,SARA312,WI_N R438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS

0022464-99-9	ZIRCONIUM OCTOATE	Trace	DSL,SARA312,WI_N R438 - WI_N R438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
UNKNOWN	COBALT SOAP	Trace	SARA312
0000108-88-3	TOLUENE	Trace	SARA313, Canada_NPRI,DSL,HAPS,SARA312, WI_N R438 - WI_N R438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000123-86-4	BUTYL ACETATE	Trace	Canada_NPRI,DSL,SARA312,WI_N R438 - WI_N R438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000108-65-6	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	Trace	Canada_NPRI,DSL,SARA312
0026264-05-1	SURFACTANT	Trace	DSL,SARA312
0061791-12-6	CREMOPHOR EL	Trace	DSL,SARA312
0007727-43-7	BARIUM SULFATE	Trace	DSL,SARA312

## 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	/ 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



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