SECTION 2) HAZARDS IDENTIFICATION

Classification

- Acute aquatic toxicity - Category 2
- Carcinogenicity - Category 1B
- Chronic aquatic toxicity - Category 2
- Eye Irritation - Category 2A
- Flammable Liquids - Category 3
- Germ Cell Mutagenicity - Category 1B
- Reproductive Toxicity - Category 2
- Skin Irritation - Category 2
- Specific Target Organ Toxicity - Repeated Exposure - Category 1

Pictograms

Signal Word

Danger

Hazardous Statements - Health

- May cause cancer.
- Causes serious eye irritation
- May cause genetic defects.
- Suspected of damaging fertility or the unborn child
- Causes skin irritation
- Causes damage to organs through prolonged or repeated exposure.

Hazardous Statements - Physical
Flammable liquid and vapor

Hazardous Statements - Environmental
Toxic 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 release to the environment.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
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 breathe dust/fume/gas/mist/vapors/spray.
Do not eat, drink or smoke when using this product.

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention.
Collect spillage.
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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
In case of fire: Use CO2, dry chemical, or foam to extinguish.
IF ON SKIN: Wash with plenty of water.
Specific treatment (see section 4 on this SDS).
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing. And wash it before reuse.
Get Medical advice/attention if you feel unwell.

Precautionary Statements - Storage
Store locked up.
Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal
Dispose of contents to an approved waste disposal plant or paint 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.

Hazards Not Otherwise Classified (HNOC)
None.

Acute toxicity of 44.1% of the mixture is unknown
SECTION 4) FIRST-AID MEASURES

Inhalation
Remove source of exposure or move person to fresh air and keep comfortable for breathing.
If exposed or concerned: Get medical advice.
Eliminate all ignition sources if safe to do so.

Skin Contact
Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower for a duration of 30 or until medical aid is available. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before re-use or discard.
If exposed or concerned: Get medical advice/attention.

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 a 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. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

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

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Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.
Dry chemical, foam, carbon dioxide water spray or fog 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. Sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media**
Do not use straight streams of water.

**Specific Hazards in Case of Fire**
Pressure may build and cause rupture in heated containers. Vapor is heavier than air and will spread along the ground. Vapors may accumulate in low and confined areas, or travel a considerable distance to an ignition source and flashback fire danger.

**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.

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**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. 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**
Dam up and soak up with inert absorbent material (floor-dry, PIG absorbents, sand, or sawdust). Scoop up and transfer to properly labeled containers. Allow used absorbent material to dry and dispose according to local regulations.

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**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.

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.

A NIOSH/MSHA approved respirator is advised.

**Appropriate Engineering Controls**

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

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<th>OSHA STEL (mg/m³)</th>
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<tr>
<td>XYLENE</td>
<td>A4; BEI</td>
<td>A4</td>
<td></td>
<td></td>
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<tr>
<td>ZIRCONIUM OCTOATE</td>
<td>A4</td>
<td>A4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(C) - Ceiling limit, (R) - Respirable fraction, 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, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, repro - Reproductive, resp - Respiratory, URT - Upper respiratory tract.

Visual impair; female repro; pregnancy loss
URT & eye irr; CNS imapir
SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>8.72526 lb/gal</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.04552</td>
</tr>
<tr>
<td>% Solids By Weight</td>
<td>63.93580%</td>
</tr>
<tr>
<td>% VOC</td>
<td>36.06360%</td>
</tr>
<tr>
<td>% HAPS</td>
<td>2.81134%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Liquid</td>
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<tr>
<td>Odor Description</td>
<td>Petroleum Solvent</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
<td>pH</td>
<td>N.A.</td>
</tr>
<tr>
<td>Freezing Point</td>
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<tr>
<td>Boiling Point</td>
<td>316 - 399 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>104 °F</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>0.14 (Butyl Acetate = 1)</td>
</tr>
<tr>
<td>Flammability</td>
<td>Flash point at or above 73°F/23°C and less than 100°F/38°C</td>
</tr>
<tr>
<td>Lower Explosion Level</td>
<td>~ 0.7</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Upper Explosion Level</td>
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<tr>
<td>Vapor Density</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble in most solvents, water negligible</td>
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<tr>
<td>Coefficient Water/Oil</td>
<td>No information available</td>
</tr>
<tr>
<td>Auto Ignition Temp</td>
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<tr>
<td>Decomposition Pt</td>
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<tr>
<td>Viscosity</td>
<td>100 - 500 cSt (mm2/sec) @ 40 °C</td>
</tr>
</tbody>
</table>

SECTION 10) STABILITY AND REACTIVITY

Stability
Material is stable at standard temperature and pressure.

Conditions to Avoid
Avoid all possible sources of ignition. Do not allow vapor to accumulate in low or confined areas. Do not pile or accumulate paint-laden rags, filters or floor sweeping until the paint contained within them is cured.

Hazardous Reactions/Polymerization
There is potential for spontaneous combustion of concentrated paint-laden rags, spray booth filters, or dry-spray floor sweepings.

Incompatible Materials
Avoid contact with strong oxidizers, alkaline materials, mineral acids, and halogens.

Hazardous Decomposition Products
Oxides of carbon, metal oxides.

SECTION 11) TOXICOLOGICAL INFORMATION

Likely Route of Exposure
Inhalation, ingestion, skin absorption

Aspiration Hazard
Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

0000078-83-1 ISOBUTYL ALCOHOL
If swallowed, aspiration into the lungs may result in chemical pneumonitis.

**Carcinogenicity**
May cause cancer.

**Germ Cell Mutagenicity**
May cause genetic defects.

**Reproductive Toxicity**
Suspected of damaging fertility or the unborn child

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Can irritate the respiratory tract.

**Respiratory/Skin Sensitization**
Prolonged or repeated skin contact may defat the skin resulting in possible irritation and dermatitis. This product contains small amounts of 2-butanone oxime which may cause an allergic skin reaction.

0000057-55-6 PROPYLENE GLYCOL
Prolonged or repeated contact can cause a skin rash dryness and redness.

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.

0000108-88-3 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.

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Can irritate the eyes.

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE
The substance defats the skin, which may cause dryness or cracking.

**Serious Eye Damage/Irritation**
Eye contact may cause severe irritation, redness, tearing, blurred vision, and a sensation of seeing halos around lights.

Causes serious eye irritation

0000057-55-6 PROPYLENE GLYCOL
Contact can irritate the eyes.

0000071-36-3 N-BUTYL ALCOHOL
Can irritate and burn the eyes.

0000078-83-1 ISOBUTYL ALCOHOL
Can irritate the eyes.

0000108-88-3 TOLUENE
Contact with eyes is extremely irritating and may cause burns.

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE
The vapour is mildly irritating to the eyes.

**Skin Corrosion/Irritation**
Causes skin irritation

0000057-55-6 PROPYLENE GLYCOL
Contact can irritate the skin.
0000071-36-3 N-BUTYL ALCOHOL
Can irritate and burn the skin.

0000108-88-3 TOLUENE
Contact can irritate the skin.

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Can irritate the skin.
May affect the central nervous system, blood, kidneys and liver. Exposure can cause headache, dizziness and lightheadedness.

**Specific Target Organ Toxicity - Repeated Exposure**
Causes damage to organs through prolonged or repeated exposure.

0000057-55-6 PROPYLENE GLYCOL
Repeated high exposure may affect the kidneys.

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.

**Specific Target Organ Toxicity - Single Exposure**

0000057-55-6 PROPYLENE GLYCOL
Exposure can cause headache, dizziness, lightheadedness, and passing out.

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.

0000108-88-3 TOLUENE
May affect the nervous system causing headache, dizziness and passing out.

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
May affect the central nervous system, blood, kidneys and liver. Exposure can cause headache, dizziness and lightheadedness.

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE
May cause effects on the central nervous system.

**Acute Toxicity**
If swallowed, can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

May be irritating to the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death.

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.

**Likely Routes of Exposure**
Inhalation, Ingestion, Skin contact, Eye contact

0000110-19-0 ISO-BUTYL ACETATE
The substance can be absorbed into the body by inhalation of its vapour.

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

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
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.
0000108-88-3 TOLUENE
The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

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.

000091-20-3 NAPHTHALENE
Is an IARC, NTP or OSHA carcinogen. Tests in some laboratory animals demonstrate carcinogenic activity. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: kidneys, liver. Recurrent overexposure may result in liver and kidney injury. WARNING: This chemical is known to the State of California to cause cancer.

0001000-41-4 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, respiratory system, skin. Recurrent overexposure may result in liver and kidney injury. 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 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.

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. 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.

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 not 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.

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.

0064742-95-6 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.
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.

**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.

**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)

**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)

**000078-83-1 ISO-BUTYL ACETATE**

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)

**008052-41-3 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)

**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, neontal 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, 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)

**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)
1,2,4-TRIMETHYLBENZENE
LC50 (rat): 18 g/m3 (4-hour exposure) (1)
LD50 (oral, rat): 5 g/kg (1)

NAPHTHALENE
LC50: Insufficient data
LD50 (oral, mouse): 533 mg/kg (male); 710 mg/kg (female) (1)
LD50 (oral, rat): 1780 mg/kg (2)

ETHYLENE GLYCOL MONOBUTYL ETHER
LC50 (female rat): 450 ppm (4-hour exposure) (2)
LC50 (male rat): 486 ppm (4-hour exposure) (2)
LD50 (oral, male weanling rat): 3000 mg/kg (1)
LD50 (oral, 6-week old male rat): 2400 mg/kg (1)
LD50 (oral, yearling male rat): 560 mg/kg (1)
LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1)
LD50 (oral, mouse): 1230 mg/kg (1)
LD50 (oral, rabbit): 320 mg/kg (1)
LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)
NONANE
LC50 (inhalation, rat): 3200 ppm (4-hr exposure) (1,9)
LD50 (oral, rat): Greater than 15 g/kg (4)

SECTION 12) ECOLOGICAL INFORMATION

Toxicity
Toxic to aquatic life
Toxic to aquatic life with long lasting effects

Persistence and Degradability
N-BUTYL ALCOHOL
Readily biodegradable.
ISO-BUTYL ACETATE
Readily biodegradable.
ETHYLENE GLYCOL MONOBUTYL ETHER
Readily biodegradable

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

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

Bioaccumulative Potential
No data available.

Mobility in Soil
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.

Other Adverse Effects
No data available.

Bio-accumulative Potential
ISO-BUTYL ACETATE
No potential for bioaccumulation.

Results of the PBT and vPvB assessment
N-BUTYL ALCOHOL
The substance is not PBT/vPvB

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

The substance is not PBT / vPvB.

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

UN Number: UN1263
UN Proper Shipping Name: PAINT
Hazard Class: 3
Packing Group: III

Other Information: This product may be reclassified as a combustible liquid for ground transportation.

IMDG Information

UN Number: UN1263
UN Proper Shipping Name: PAINT
Hazard Class: 3
Packing Group: III

IATA Information

UN Number: UN1263
UN Proper Shipping Name: PAINT
Hazard Class: 3
Packing Group: III

SECTION 15) REGULATORY INFORMATION

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<th>CAS</th>
<th>Chemical Name</th>
<th>% By Weight</th>
<th>Regulation List</th>
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<tbody>
<tr>
<td>0064742-47-8</td>
<td>ISOPARAFFINIC PETROLEUM DISTILLATE</td>
<td>12% - 18%</td>
<td>SARA312,VOC, IARCCarcinogen, TS CA</td>
</tr>
<tr>
<td>0013463-67-7</td>
<td>TITANIUM DIOXIDE</td>
<td>7% - 11%</td>
<td>SARA312, IARCCarcinogen, TSCA, CA, CA_Prop65 - California Proposition 65, CA_Prop65_Type_Toxicity_Cancer - CA, Proposition65_Type_Toxicity_Cancer</td>
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<tr>
<td>0008052-41-3</td>
<td>STODDARD SOLVENT</td>
<td>7% - 11%</td>
<td>SARA312, VOC, IARCCarcinogen, TS CA</td>
</tr>
<tr>
<td>0013515-40-7</td>
<td>C.I. Pigment Yellow 73</td>
<td>6% - 9%</td>
<td>SARA312, TSCA</td>
</tr>
<tr>
<td>0064742-88-7</td>
<td>MEDIUM MINERAL SPIRITS</td>
<td>4% - 5%</td>
<td>SARA312, VOC, IARCCarcinogen, TS CA</td>
</tr>
<tr>
<td>0064742-95-6</td>
<td>AROMATIC HYDROCARBON MIXTURE &gt;C9</td>
<td>2% - 3%</td>
<td>SARA312, VOC, IARCCarcinogen, TS CA</td>
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<tr>
<td>0001330-20-7</td>
<td>XYLENE</td>
<td>1.6% - 2%</td>
<td>SARA313, CERCLA, SARA312, VOC, IARCCarcinogen, TSCA, RCRA</td>
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<td>0000095-63-6</td>
<td>1,2,4-TRIMETHYL BENZENE</td>
<td>0.9% - 1.8%</td>
<td>SARA313, SARA312, VOC, TSCA</td>
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<tr>
<td>0051274-00-1</td>
<td>YELLOW IRON OXIDE</td>
<td>0.4% - 0.8%</td>
<td>SARA312, TSCA</td>
</tr>
<tr>
<td>CAS Number</td>
<td>Chemical Name</td>
<td>Concentration Range</td>
<td>Additional Information</td>
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<td>---------------------------------</td>
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<tr>
<td>0000100-41-4</td>
<td>ETHYLBENZENE</td>
<td>0.3% - 0.6%</td>
<td>SARA313, CERCLA, SARA312, VOC, IARC Carcinogen, TSCA, CA_Prop65 - California Proposition 65, CA_Prop65_Type_Toxicity_Cancer</td>
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<tr>
<td>0021645-51-2</td>
<td>ALUMINUM HYDROXIDE</td>
<td>0.3% - 0.5%</td>
<td>SARA312, TSCA</td>
</tr>
<tr>
<td>0007631-86-9</td>
<td>SILICA, AMORPHOUS</td>
<td>0.3% - 0.5%</td>
<td>SARA312, IARC Carcinogen, TSCA</td>
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<td>0000111-84-2</td>
<td>NONANE</td>
<td>0.2% - 0.4%</td>
<td>SARA312, VOC, TSCA</td>
</tr>
<tr>
<td>0020344-49-4</td>
<td>iron oxide</td>
<td>0.2% - 0.4%</td>
<td>SARA312, TSCA</td>
</tr>
<tr>
<td>0000096-29-7</td>
<td>2-BUTANONE OXIME</td>
<td>0.2% - 0.4%</td>
<td>SARA312, VOC, TSCA</td>
</tr>
<tr>
<td>0008002-43-5</td>
<td>SOYBEAN LECITHIN</td>
<td>0.2% - 0.4%</td>
<td>SARA312, TSCA</td>
</tr>
<tr>
<td>0022464-99-9</td>
<td>ZIRCONIUM OCTOATE</td>
<td>0.2% - 0.3%</td>
<td>SARA312, TSCA</td>
</tr>
<tr>
<td>0000136-52-7</td>
<td>COBALT OCTATE</td>
<td>0.1% - 0.2%</td>
<td>SARA313, CERCLA, SARA312, VOC, IARC Carcinogen, NTP_Carcinogen - National Toxicology Program Carcinogens, TSCA, RCRA, CA_Prop65 - California Proposition 65, CA_Prop65_Type_Toxicity_Development</td>
</tr>
<tr>
<td>0000111-76-2</td>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>Trace</td>
<td>SARA313, CERCLA, SARA312, VOC, IARC Carcinogen, TSCA</td>
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<td>0000108-88-3</td>
<td>TOLUENE</td>
<td>Trace</td>
<td>SARA313, CERCLA, SARA312, VOC, IARC Carcinogen, TSCA, RCRA, CA_Prop65 - California Proposition 65, CA_Prop65_Type_Toxicity_Development</td>
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<td>0000091-20-3</td>
<td>NAPHTHALENE</td>
<td>Trace</td>
<td>SARA313, CERCLA, SARA312, VOC, IARC Carcinogen, NTP_Carcinogen - National Toxicology Program Carcinogens, TSCA, RCRA, CA_Prop65 - California Proposition 65, CA_Prop65_Type_Toxicity_Cancer</td>
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<td>0000366-18-7</td>
<td>2,2'-BIPYRIDYL</td>
<td>Trace</td>
<td>SARA312, TSCA</td>
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<tr>
<td>0000078-83-1</td>
<td>ISOBUTYL ALCOHOL</td>
<td>Trace</td>
<td>CERCLA, SARA312, VOC, TSCA, RCRA</td>
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<td>0064742-89-8</td>
<td>ALIPHATIC, LIGHT HYDROCARBON SOLVENT</td>
<td>Trace</td>
<td>SARA312, VOC, IARC Carcinogen, TSCA</td>
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<td>0000071-36-3</td>
<td>N-BUTYL ALCOHOL</td>
<td>Trace</td>
<td>SARA313, CERCLA, SARA312, VOC, TSCA, RCRA</td>
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<tr>
<td>0000110-19-0</td>
<td>ISO-BUTYL ACETATE</td>
<td>Trace</td>
<td>CERCLA, SARA312, VOC, TSCA</td>
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<td>0000057-55-6</td>
<td>PROPYLENE GLYCOL</td>
<td>Trace</td>
<td>SARA312, VOC, TSCA</td>
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</tbody>
</table>

**SECTION 16) OTHER INFORMATION**

**Glossary**

AGIHC- 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
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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