ParaForce 2033
Date Effective 09/12/2013

ParaForce 2033
Paraffin & Asphaltene Dispersant

Section One: Product Identification

Trade Name: ParaForce 2033
Chemical Family: Paraffin & Asphaltene Dispersant
Chemical Formula: Confidential
CAS Number: Proprietary Blend

Section Two: Composition Information on Hazardous Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Component Common Name</th>
<th>TWA</th>
<th>STEL</th>
<th>PEL</th>
<th>Weight Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confidential</td>
<td>Methyl Amyl Alcohol</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>5 – 10%</td>
</tr>
<tr>
<td>52624-57-4</td>
<td>Polyoxyalkylene Glycol</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>5 – 10%</td>
</tr>
<tr>
<td>Confidential</td>
<td>Proprietary Ingredients/Trade Secret</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>15 – 25%</td>
</tr>
<tr>
<td>8008-20-6</td>
<td>Low Aromatic Feedstock Solvent</td>
<td>200 mg/m³</td>
<td>NE</td>
<td>NE</td>
<td>25 – 35%</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Petroleum Solvent</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>25 – 35%</td>
</tr>
<tr>
<td>Confidential</td>
<td>Proprietary Fatty Acid Methyl Ester</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>35 – 45%</td>
</tr>
</tbody>
</table>

Schedule B, Harmonized Tariff Number for Import/Export
3402903000 Surface-active preparations, containing any aromatic or modified aromatic surface active agents

Section Three: Hazards Identification

Routes of Entry: Skin contact, eye contact, inhalation and ingestion.
Potential Health Effects: This product may cause eye, skin, or respiratory irritation.
Carcinogenicity (NTP): This product is not believed to be carcinogenic.
Carcinogenicity (IARC): Possible; human evidence inadequate.
Carcinogenicity (OSHA): This product is not believed to be carcinogenic.

Section Four: First Aid Measures

Eyes: Flush eyes with water for at least 15 minutes. Seek medical attention.
Skin: Remove contaminated clothing. Flush skin with water.
Ingestion: Drink 3-4 glasses of water. Do not induce vomiting. Seek medical help immediately.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call a physician.

Section Five: Fire Fighting Measures

Flammable Limits, Flash Point: 144°F, PMCC
Flammable Limits in Air - LEL: >1.0%
Flammable Limits in Air – UEL: >10.0%
Auto Ignition Temperature: >650°F
General Hazards: Flammable; keep away from heat, sparks, and open flames.
Extinguishing Media: Dry chemical, carbon dioxide or water spray.
Fire Fighting Equipment: Wear self-contained breathing apparatus and protective clothing.
Fire and Explosion Hazards: Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

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Hazardous Combustion Products
Not available.

Sensitivity to Static Discharge
This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Additional Information
No additional information.

Section Six: Accidental Release Measures
Accidental Release Measures
Eliminate all ignition sources. Contain spill and salvage as much material as possible. Then pick up the remaining with absorbent.

Section Seven: Handling and Storage
Handling and Storage Guidelines
Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharged. The use of explosion-proof equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Section Eight: Exposure Control/Personal Protection
Personal Protective Equipment
Wear appropriate equipment to prevent probability of exposure.
Eye Protection
Goggles or glasses with side shields.
Skin Protection
Wear impervious gloves as a standard handling procedure.
Respiratory Protection
Use NIOSH approved respiratory protection with certified air purifying respirator containing an organic vapor cartridge where exposure levels exceed 8 hour regulatory limits of 19 ppm.
Engineering Controls
Do not aerosolize.
Mechanical Exhaust
Required in confined spaces.
Local Exhaust
Recommended to keep fumes from concentrating.
Emergency Response Protection
No additional specialized equipment should be required.

Section Nine: Physical and Chemical Properties
Physical Form
Liquid
Color
Light Amber
Odor
Solvent; Pungent
Boiling Point
>200° F
Melting Point
NA
Freezing Point
<-20° F
Specific Gravity
0.90 (+/- 0.02)
Bulk Density
7.55 lbs. / gallon
pH
6.5 – 8.5 (5% in IPA/Water)
Solubility in Water
Insoluble
Evaporation Rate
ND (n-Butyl Acetate = 1)
Vapor Pressure
<2 (mm Hg @ 68 °F)
Vapor Density
>3.0 (Air = 1)
Volatile Organic(s)
<800 gm/1000 ml.

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Section Ten: Stability and Reactivity

Stability
Stable at normal temperatures and operating conditions.

Incompatibilities
Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

Decomposition
The use of hydrocarbon fuels in an area without adequate ventilation may result in hazardous levels of combustion products.

Polymerization
Polymerization will not occur.

Section Eleven: Toxicological Information

Eye Irritation
Eye contact may be irritating; rinse with water.

Skin Irritation
Skin contact may be irritating; wash affected area.

Inhalation Toxicity
Remove victim to fresh air; seek medical attention.

Sensitization
Not evaluated.

Chronic/Carcinogenicity
Not evaluated.

Reproduction
Not evaluated.

Mutagenicity
Not evaluated.

Acute Dermal Toxicity
Not evaluated.

Additional Information
If swallowed call physician or poison control center.

Section Twelve: Ecological Information

Ecotoxicity
Bluegill (freshwater) TLm = 2,990 ppm/24 Hr.

Biological Oxygen Demand (BOD5)
>50% biodegraded in soil in 28 days.

Chemical Oxygen Demand
Not evaluated.

Activated Sludge Respiration Inhibition Test
Not evaluated.

Additional Information
When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material may biodegrade to a moderate extent. This material may bioaccumulate to some extent. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.

Section Thirteen: Disposal Considerations

Container Disposal Management
Dispose of in accordance with local, state, and federal regulations.

RCRA Hazard Class
D001 – Ignitability, D002, U220 – Toluene, & U239 – Xylenes

Waste Disposal Method
Dispose of in accordance with local, state, and federal regulations.

Section Fourteen: Transport Information

DOT Hazard Class
Combustible Liquid.

DOT Proper Shipping Name

Packaging Group
III

UN Number
NA

NA Number
NA 1993

Packaging Size
Carboys/Pails, Drums, and Bulk.

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Section Fifteen: Regulatory Information

<table>
<thead>
<tr>
<th>SARA 302/304 RQ</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 302/304 TPQ</td>
<td>NA</td>
</tr>
<tr>
<td>SARA 311/312 Acute</td>
<td>Yes</td>
</tr>
<tr>
<td>SARA 311/312 Chronic</td>
<td>Yes</td>
</tr>
<tr>
<td>SARA 311/312 Fire</td>
<td>Yes</td>
</tr>
<tr>
<td>SARA 311/312 Pressure</td>
<td>NA</td>
</tr>
<tr>
<td>SARA 311/312 Reactivity</td>
<td>NA</td>
</tr>
<tr>
<td>SARA 313 List</td>
<td>NA</td>
</tr>
<tr>
<td>CERCLA RQ</td>
<td>NA</td>
</tr>
<tr>
<td>TSCA Status</td>
<td>All components are registered on TSCA inventory.</td>
</tr>
<tr>
<td>CAA</td>
<td>NA</td>
</tr>
<tr>
<td>CWA</td>
<td>NA</td>
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</table>

Additional Information: No additional information available.

Section Sixteen: Other Information

<table>
<thead>
<tr>
<th>HMIS Hazard Classification</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification Code</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>D</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>NFPA Hazard Classification</th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
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<tbody>
<tr>
<td>Classification Code or Markings</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Explanation of NFPA Special Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OX</td>
<td>Oxidizer; a chemical that can increase the rate of combustion or fire.</td>
</tr>
<tr>
<td>W</td>
<td>Reactive with water; avoid using water when fighting a fire involving material.</td>
</tr>
<tr>
<td>📩</td>
<td>Corrosive material(s); can be corrosive in either an acid or alkaline state.</td>
</tr>
<tr>
<td>🍺</td>
<td>Poison or highly toxic material(s).</td>
</tr>
<tr>
<td>🙅♀♂️♂️</td>
<td>Explosive material(s); redundant notation of instability.</td>
</tr>
<tr>
<td>🐟</td>
<td>Marine Pollutant(s); extremely harmful to aquatic environments.</td>
</tr>
</tbody>
</table>

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Explaination of Abbreviations


BOD  Biological Oxygen Demand, 5-Day Test Standard.

CAA  Clean Air Act.

CAS  Chemical Abstracts Service.

CERCLA  Comprehensive Environmental Response, Compensation & Liability Act.

CONF  Confidential.

CWA  Clean Water Act.

DOT  U.S. Department of Transportation.

EPA  U.S. Environmental Protection Agency.

HMIS  Hazardous Materials Identification System.

IARC  International Agency for Research on Cancer.

LEL  Lower Explosive Limits.

Mg/M³  Milligrams per Cubic Meter.

Mm/Hg  Millimeters of Mercury; Measurement of Air Pressure.

NA  Not Applicable.

ND  Not Determined.

NE  None Established.


NTP  National Toxicology Program.

OSHA  U.S. Occupational Health and Safety Administration.

PEL  Permissible Exposure Limit.

pH  Negative Logarithm of the Hydrogen Ion; Measurement of Acidity or Alkalinity.

PMCC  Pensky-Martens Closed Cup Flash Point Test.

PPM  Parts per Million.


RQ  Release Quantity.

SARA  Superfund Amendments and Reauthorization Act.

STEL  Short-Term Exposure Limit.

TLV  Threshold Limit Value.

TPQ  Threshold Planning Quantities.

TSCA  Toxic Substances Control Act.

TWA  Time-Weighted Average or Absolute Value.

UEL  Upper Explosive Limits.

VOC  Volatile Organic Compounds.

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