SECTION 1. IDENTIFICATION

| Product identifier used on the labe | 1 | | |
|--|---|---|--|
| | Super Fuel Stabilizer | | |
| Product Code(s) | , , , | US Product Codes: 00602, 90602, 00510P, 00552D Canda Product Codes: 00405, 90405 | |
| Recommended use of the chemica | l and restrictions on use | | |
| | : Fuel additive. No restrictions on use | e known. | |
| Chemical family | Mixture. | | |
| Name, address, and telephone | number of | Name, address, and telephone number of | |
| the manufacturer: | | the supplier: | |
| FPPF Chemical Company, Inc. 117 West Tupper Street Buffalo, NY, USA 14201 | | Refer to manufacturer | |
| · · · · · | 1-800-735-3773 Chemtrec 1-800-424-9300 (Within C (Outside U.S.). | Continental U.S.); Chemtrec 703-527-3887 | |

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Amber liquid. Solvent odour.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification Flammable Liquid - Category 3 Acute Toxicity, dermal - Category 4 Acute Toxicity, inhalation - Category 4 (vapor) Skin Irritation - Category 2 Eye Damage/Irritation - Category 2A Skin sensitization - Category 1 Aspiration Toxicity - Category 1 Reproductive Toxicity - Category 2 Developmental Carcinogenicity- Category 2 Specific Target Organ Toxicity, Single Exposure - Category 3 (cns) Specific Target Organ Toxicity, Single Exposure - Category 3 (respiratory)

Label elements

Hazard pictogram(s)



DANGER!

Hazard statement(s)

Flammable liquid and vapour Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness and dizziness. May be fatal if swallowed and enters airways. Suspected of causing cancer. Suspected of damaging the unborn child.

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling.

In case of fire, use water fog, dry chemical, CO2 or 'alcohol' foam.

IF exposed or concerned: Get medical attention/advice.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting.

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

No OSHA defined hazard classes.

Other hazards which do not result in classification: May be sensitive to static discharge. Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| emical name | Common name and synonyms | CAS # | Concentration |
|--------------------------------|---|------------|---------------|
| Light aromatic solvent naphtha | Aromatic solvent naphtha Solvent Naphtha (Petroleum) Light Aromatic | 64742-95-6 | 0.5 - 2.5 |
| 2-Butoxy ethanol | Ethylene Glycol Monobutyl Ether EGBE | 111-76-2 | 10.0 - 15.0 |
| Naphthalene | Moth balls Moth flakes Tar camphor | 91-20-3 | 0.1 - 0.9 |
| 1,2,4-Trimethylbenzene | Pseudocumene | 95-63-6 | 0.1 - 1.5 |
| Xylene (mixed isomers) | Dimethylbenzene Methyltoluene Xylol | 1330-20-7 | 1.0 - 4.5 |
| Heavy aromatic solvent naphtha | Aromatic solvent naphtha Heavy Aromatic Naphtha | 64742-94-5 | 1.0 - 4.0 |
| 2-Ethylhexyl nitrate | Ethylhexyl nitrate Nitric acid, 2-ethylhexyl ester | 27247-96-7 | 4.0 - 6.0 |

| 2-Ethylhexanol | 2-Ethylhexyl Alcohol Ethylhexanol | 104-76-7 | 0.1 - 0.9 |
|---|---|------------|-------------|
| Distillates, petroleum, hydrotreated light | Hyrdrotreated kerosene; Distillate Fuel Oils Light | 64742-47-8 | *1.0 - 65.0 |
| Solvent naphtha (petroleum), medium aliphatic | Medium Aliphatic Solvent Naphtha; White spirit | 64742-88-7 | |
| o-Xylene | ortho-Xylene; 1,2-Dimethylbenzene; 2-Methyltoluene; 2-Xylene | 95-47-6 | 0.5 - 3.0 |
| Dimethylcyclohexylamine, N,N- | DMCHA; Dimethylcylcohexylamine; 2N,N-Dimethylcyclohexylamne | 98-94-2 | 0.5 - 3.0 |
| Ethylbenzene | Ethylbenzol; Phenylethane | 100-41-4 | 0.1 - 0.9 |
| Phenol, 2,2'- [(1-methyl-1,2-ethanediyl)bis(nitrilome thylidyne)]bis- | DMD | 94-91-7 | 0.0 - 0.5 |

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The exact concentrations of the above listed chemicals are being withheld as a trade secret. Note: The * means this product could contain one or both CAS numbers within the concentration range listed with the possibility of a blend of both.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

| · · · | |
|--------------|--|
| Ingestion | : IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Aspiration hazard Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. |
| Inhalation | : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. |
| Skin contact | : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before re-use. |
| Eye contact | : 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. |

Most important symptoms and effects, both acute and delayed

| : | IF exposed or concerned: Get medical attention/advice. Harmful in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation. May cause an allergic skin reaction. Symptoms may include redness, blistering, pain |
|-------------------------------------|--|
| | and swelling. Causes skin irritation. Symptoms include redness, swelling and sloughing of skin cells (flaking). |
| | Harmful if inhaled. Symptoms may include coughing, choking and wheezing. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. |
| | May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. |
| | Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. |
| | May be fatal if swallowed and enters airways. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. |
| | Symptoms include coughing, shortness of breath and wheezing.Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing. |
| | Suspected of damaging the unborn child. Symptoms in offspring may include reduced fetal weight, behavioral effects, delayed skeletal formation and hearing loss. |
| Indication of any immediate medical | Prolonged overexposure may cause liver and kidney effects. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Prolonged or repeated contact may cause drying, cracking and defatting of the skin. attention and special treatment needed |
| indication of any inmediate medical | Immediate medical attention is required. Provide general supportive measures and |
| | treat symptomatically. Show this safety data sheet to the doctor in attendance. |

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

| Extinguishing media | |
|--|---|
| Suitable extinguishing media | |
| | Dry chemical, foam, carbon dioxide and water fog. |
| Unsuitable extinguishing media | |
| Unsultable extinguishing media | |
| : | Do not use a solid water stream as it may scatter and spread fire. |
| Special hazards arising from the sul | bstance or mixture / Conditions of flammability |
| : Flammability classification (OSHA 2 | Flammable liquid and vapour Keep away from heat, sparks, and open flames. This product will accumulate static charge by flow, splashing or agitation. After prolonged storage, may release explosive peroxides in the presence of air. Vapors may travel considerable distance to a source of ignition and flash back. Vapours may be heavier than air and may collect in confined and low-lying areas. Product may float, and be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. 9 CFR 1910.106) |
| | |
| : | Flammable Liquid - Category 3 |
| Hazardous combustion products | |
| : | Carbon oxides. Reactive hydrocarbons Polycyclic aromatic hydrocarbons . Aldehydes Nitrogen oxides . Unidentified organic compounds. Other irritating fumes and smoke. |
| Special protective equipment and p | recautions for firefighters |
| Protective equipment for fire-fight | • |
| : | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. |
| Special fire-fighting procedures | |
| : | Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control. |
| | |

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| : Environmental precautions : Methods and material for containm | Evacuate personnel to safe areas. Keep all other personnel upwind and away from the spill/release. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8. Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. |
|---|--|
| | Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Bond and ground transfer containers and equipment to avoid static accumulation. Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. |
| Special spill response procedures : | In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): Naphthalene (100 lbs / 45.4 kg); Xylene (100 lbs / 45.4 kg); Ethylbenzene (1000 lbs / 454 kg); o-Xylene (1000 lbs / 454 kg) |

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

| | : | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Keep away from heat, sparks and open flame No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid breathing mist or vapours. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials. | |
|-----------------------------|---|---|--|
| Conditions for safe storage | : | Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up. Store away from incompatibles and out of direct sunlight. After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides. Rate of peroxide formation is not known. Take measures to prevent the build up of electrostatic charge. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Strong oxidizing agents; Acids; Perchloric acid; Alkalies; Bases. | |
| incompatible materials | • | | |

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | ACGIH TLV | | <u>OSHA F</u> | OSHA PEL | |
|---|---|-------------|---|----------------------|--|
| | TWA | <u>STEL</u> | PEL | <u>STEL</u> | |
| Light aromatic solvent naphtha | N/Av | N/Av | N/Av | N/Av | |
| 2-Butoxy ethanol | 20 ppm | N/Av | 50 ppm (skin) | N/Av | |
| Naphthalene | 10 ppm (skin) | N/Av | 10 ppm ; 50 mg/m³ | 15ppm; 75mg/m | |
| 1,2,4-Trimethylbenzene | 25 ppm (trimethylbenzene isomers) | N/Av | 25 ppm (trimethylbenzene isomers) (final rule limit) | N/Av | |
| Xylene (mixed isomers) | 100 ppm | 150 ppm | 100 ppm (435 mg/m³) | N/Av | |
| Heavy aromatic solvent naphtha | N/Av | N/Av | 500 ppm (as petroleum distillates, naphtha) | N/Av | |
| 2-Ethylhexyl nitrate | N/Av | N/Av | N/Av | N/Av | |
| 2-Ethylhexanol | N/Av | N/Av | N/Av | N/Av | |
| Distillates, petroleum, hydrotreated light | 200 mg/m³ (as total hydrocarbon vapour) | N/Av | N/Av | N/Av | |
| Solvent naphtha (petroleum), medium aliphatic | N/Av | N/Av | N/Av | N/Av | |
| o-Xylene | 100 ppm | 150 ppm | 100 ppm (all Xylene isomers) | N/Av | |
| Dimethylcyclohexylamine, N,N- | N/Av | N/Av | N/Av | N/Av | |
| Ethylbenzene | 20 ppm | N/Av | 100 ppm (435 mg/m³) | 125ppm (545mg/m³) | |
| Phenol, 2,2'- [(1-methyl-1,2-ethanediyl)bis(nitril omethylidyne)]bis- | N/Av | N/Av | N/Av | N/Av | |

Exposure controls

Ventilation and engineering measures

| Respiratory protection | Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof electrical and ventilating equipment. In case of insufficient ventilation wear suitable respiratory equipment. If engineering controls and work practices are not effective in controlling exposure to |
|--------------------------------|---|
| Respiratory protection | this material, then wear suitable approved respiratory protection. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. |
| Skin protection | : Wear protective gloves/clothing. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Eye / face protection | : Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary. |
| Other protective equipment | : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards. |
| General hygiene considerations | |

: Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Contaminated work clothing must not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

| SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES | | |
|---|--|--|
| Appearance | : Amber liquid. | |
| Odour | : Petroleum odor. | |
| Odour threshold | : N/Av | |
| рН | : N/Av | |
| Melting/Freezing point | : N/Av | |
| Initial boiling point and boiling | range | |
| | : N/Av | |
| Flash point | : 51°C / 124°F | |
| Flashpoint (Method) | : Tag closed cup | |
| Evaporation rate (BuAe = 1) | : <1 | |
| Flammability (solid, gas) | : N/Ap | |
| Lower flammable limit (% by vo | | |
| | : N/Av | |
| Upper flammable limit (% by vo | l.) | |
| | : N/Av | |
| Oxidizing properties | : None known. | |
| Explosive properties | : N/Av | |
| Vapour pressure | : N/Av | |
| Vapour density | : >1 | |
| Relative density / Specific grav | ty | |
| | : 0.79 | |
| Solubility in water | : N/Av | |
| Other solubility(ies) | : N/Av | |
| Partition coefficient: n-octanol/ | water or Coefficient of water/oil distribution | |
| | : N/Av | |
| Auto-ignition temperature | : N/Av | |
| Decomposition temperature | : N/Av | |
| Viscosity | : N/Av | |
| Volatiles (% by weight) | : N/Av | |
| Volatile organic Compounds (V | OC's) | |
| | : N/Av | |
| Absolute pressure of container | | |
| | : N/Ap | |
| Flame projection length | : N/Ap | |
| Other physical/chemical comm | | |
| | : None reported by the manufacturer. | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | t normally reactive. | |
|-----------------------------------|--|----|
| Chemical stability | able under normal conditions. | |
| Possibility of hazardous reaction | | |
| | izardous polymerization will not occur. May be sensitive to static discharge. May m explosive peroxides during prolonged exposure to air and heat. Rate of peroxic mation is not known. | de |
| Conditions to avoid | ep away from heat, sparks and flame. Keep away from direct sunlight. Ensure equate ventilation, especially in confined areas. Take precautionary measures ainst static discharge. Avoid contact with incompatible materials. | |
| Incompatible materials | rong oxidizing agents; Acids; Perchloric acid; Alkalies; Bases. | |

Hazardous decomposition products

: None reported by the manufacturer. Refer also to hazardous combustion products,

Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

| Routes of entry inhalation | : | YES |
|----------------------------------|----|-----|
| Routes of entry skin & eye | : | YES |
| Routes of entry Ingestion | : | YES |
| Routes of exposure skin absorpti | on | |
| | : | YES |

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

| Sign and symptoms ingestion | Harmful by inhalation. Inhalation may cause respiratory irritation and central nervous system depression. May cause coughing and breathing difficulties. Symptoms include: Upper respiratory irritation, coughing, sneezing, staggering gait, giddiness, drowiness, slurred speech, nausea, and possible nervous system depression. |
|----------------------------------|--|
| | |
| | : Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. Causes symptoms similar to those listed for inhalation. May be fatal if swallowed and enters airways. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Symptoms include coughing, shortness of breath and wheezing. |
| Sign and symptoms skin | : Harmful in contact with skin. May be absorbed through the skin, producing |
| | symptoms similar to ingestion or inhalation. Causes skin irritation. Symptoms include: Dryness, itching, cracking, burning, redness and swelling. |
| Sign and symptoms eyes | Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. |
| Potential Chronic Health Effects | |
| | Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage. Prolonged overexposure may cause liver and kidney effects. |
| Mutagenicity | : Not expected to be mutagenic in humans. |
| Carcinogenicity | This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). |
| | Classification Carcinogenicity- Category 2 Suspected of causing cancer. |
| | Contains Naphthalene. Naphthalene is classified as carcinogenic by IARC (Group 2B) and NTP (Group 2 - Reasonably anticipated). |
| | Contains Ethylbenzene. Ethylbenzene is classifed as carcinogenic by IARC (Group 2B) and ACGIH (Category A3). |
| Reproductive effects & Teratoger | nicity |
| | This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). |
| | Classification Reproductive Toxicity - Category 2 Suspected of damaging the unborn child. Developmental |
| | Contains Xylene (mixed isomers) Xylene may cause fetotoxic effects (e.g. reduced fetal weight, delayed ossification, behavioral effects) at doses which are not maternally toxic, based on animal data. |

SDS Preparation Date (mm/dd/yyyy): 08/25/2015

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| Sensitization to material | : | May cause an allergic skin reaction. Symptoms may include redness, itching and swelling. |
|---------------------------------|-----|---|
| Specific target organ effects | : | Not expected to be a respiratory sensitizer. Eyes Skin Respiratory system Lungs Central nervous system Digestive system Kidney Liver Reproductive system. |
| | | This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). |
| | | Classification Specific target organ toxicity - single exposure Category 3 May cause drowsiness and dizziness. May cause respiratory irritation. |
| | | Not classified as a specific target organ toxicity-repeated exposure. |
| Medical conditions aggravated b | y o | verexposure |
| | : | Pre-existing skin, eye, respiratory and central nervous system disorders. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. |
| Synergistic materials | : | None reported by the manufacturer. |
| Toxicological data | : | The calculated ATE values for this mixture are: ATE oral = 2283mg/kg ATE dermal = 2135mg/kg ATE inhalation (vapours) =534mg/L/4H ATE inhalation (mists) = 16.0mg/L/4H |

See below for individual ingredient acute toxicity data.

| | LC₅₀(4hr) | LD | 50 |
|---|---|----------------------|------------------------------|
| Chemical name | inh, rat | (Oral, rat) | <u>(Rabbit, dermal)</u> |
| ight aromatic solvent haphtha | >17.7mg/L/4H (vapour) | 8400 mg/kg | >3160 mg/kg |
| 2-Butoxy ethanol | 450 ppm (2.175 mg/L) | 530 mg/kg | 400 - 500 mg/kg |
| laphthalene | No information available. | 490 mg/kg | >20,000 mg/kg |
| ,2,4-Trimethylbenzene | 18 mg/L | 5000 mg/kg | > 3160 mg/kg |
| (ylene (mixed isomers) | 6350 ppm (27.6 mg/L) (vapours) | 3253 mg/kg | 12 180 mg/kg |
| leavy aromatic solvent haphtha | > 17.1 mg/L/4 hours | > 6000 mg/kg | > 3160 mg/kg |
| 2-Ethylhexyl nitrate | > 14 mg/L | >10mg/L (>9600mg/kg) | >5 mL/kg (>4800mg/kg) |
| 2-Ethylhexanol | ≥1.2 - <5.3 mg/L | 2052mg/kg | No information available. |
| Distillates, petroleum, nydrotreated light | >5.2 mg/L (aerosol) | >5000 mg/kg | >2000 mg/kg |
| Solvent naphtha petroleum), medium ıliphatic | 21.4 mg/L | >5000 mg/kg | >2000 mg/kg |
| o-Xylene | 5305 ppm/4H; 21.9mg/L/4H | 3000 mg/kg | 3160 - 5010 mg/kg |
| Dimethylcyclohexylamine, I,N- | 1700 - 5800 mg/m³ (6hr); 2.08 - 7.1mg/L/4H | 348 mg/kg | 370 mg/kg |
| Ethylbenzene | 4000 ppm (17.4 mg/L) (vapour) | 3500 mg/kg | 15 380 mg/kg |
| Phenol, 2,2'- (1-methyl-1,2-ethanediyl)bis nitrilomethylidyne)]bis- | N/Av | 4560 mg/kg | >2000mg/kg (No mortality) |

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: No data is available on the product itself.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

| | | | Toxicity to Fish | |
|---|------------|-------------------------------|-------------------------------------|----------|
| <u>Ingredients</u> | CAS No | LC50 / 96h | NOEC / 21 day | M Factor |
| Light aromatic solvent naphtha | 64742-95-6 | 9.22 mg/L (Rainbow trout) | N/Av | None. |
| 2-Butoxy ethanol | 111-76-2 | 1490 mg/L (Lepomis marcrhius) | >100mg/L (Zebra fish) | none |
| Naphthalene | 91-20-3 | 0.96 mg/L (pink salmon) | 0.12mg/L (40 days) (pink salmon) | none |
| 1,2,4-Trimethylbenzene | 95-63-6 | 7.72 mg/L (Fathead minnow) | N/Av | None. |
| Xylene (mixed isomers) | 1330-20-7 | 8.2 mg/L (Rainbow trout) | N/Av | None. |
| Heavy aromatic solvent naphtha | 64742-94-5 | 3.6 mg/L (Rainbow trout) | N/Av | none |
| 2-Ethylhexyl nitrate | 27247-96-7 | 2 mg/L (Zebra fish) | N/Av | None. |
| 2-Ethylhexanol | 104-76-7 | 17.1 mg/L (Golden orfe) | N/Av | None. |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | N/Av | N/Av | N/Av |
| Solvent naphtha (petroleum), medium aliphatic | 64742-88-7 | 2 - 5 mg/L (Rainbow trout) | 0.098 mg/L/28-day QSAR | None. |
| o-Xylene | 95-47-6 | 7.6mg/L (Rainbow trout) | N/Av | None. |
| Dimethylcyclohexylamine, N,N- | 98-94-2 | 28mg/L (Rainbow trout) | N/Av | None. |
| Ethylbenzene | 100-41-4 | 4.2 mg/L (Rainbow trout) | 1.13 mg/L/30 days | None. |
| Phenol, 2,2'- [(1-methyl-1,2-ethanediyl)bis(nitri lomethylidyne)]bis- | 94-91-7 | ~46mg/L (Golden orfe) | N/Av | None. |

| Ingredients | CAS No | То | cicity to Daphnia | | |
|---|------------|---|-----------------------------|----------|--|
| | | EC50 / 48h | NOEC / 21 day | M Factor | |
| Light aromatic solvent naphtha | 64742-95-6 | 6.16 mg/L (Daphnia magna) | N/Av | None. | |
| 2-Butoxy ethanol | 111-76-2 | 835mg/L (Daphnia magna) | 100mg/L (Daphnia magna) | none | |
| Naphthalene | 91-20-3 | 3.4 mg/L/ (Water flea) | 0.6mg/L | none | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 3.6mg/L (Daphnia magna) | N/Av | None. | |
| Xylene (mixed isomers) | 1330-20-7 | 3.2 - 9.56 mg/L (Daphnia magna) | N/Av | None. | |
| Heavy aromatic solvent naphtha | 64742-94-5 | 1.1 mg/L (Water flea) | N/Av | none | |
| 2-Ethylhexyl nitrate | 27247-96-7 | > 12.6 mg/L [Daphnia magna (Water flea)] | N/Av | None. | |
| 2-Ethylhexanol | 104-76-7 | 39mg/L (Daphnia magna) | N/Av | None. | |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | N/Av | N/Av | N/Av | |
| Solvent naphtha (petroleum), medium aliphatic | 64742-88-7 | 1.4 mg/L (Water flea) | 0.48 mg/L QSAR (Water flea) | None. | |
| o-Xylene | 95-47-6 | 3.2mg/L Daphnia magna (Water flea) | N/Av | None. | |
| Dimethylcyclohexylamine, N,N- | 98-94-2 | 75 mg/L Daphnia magna (Water flea) | N/Av | None. | |
| Ethylbenzene | 100-41-4 | 1.81 mg/L (Daphnia magna) | N/Av | None. | |
| Phenol, 2,2'- [(1-methyl-1,2-ethanediyl)bis(nitri Iomethylidyne)]bis- | 94-91-7 | 5.034mg/L Daphnia magna (Water flea) | N/Av | None. | |

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| Ingredients | CAS No | Toxicity to Algae | | | |
|---|------------|--------------------------------------|----------------------------------|----------|--|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor | |
| Light aromatic solvent naphtha | 64742-95-6 | N/Av | N/Av | N/Av | |
| 2-Butoxy ethanol | 111-76-2 | 911mg/L/72hr | 286mg/L/72hr | none | |
| Naphthalene | 91-20-3 | 0.4mg/L/72hr (Marine diatom) | N/Av | none | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 2.356mg/L/96hr QSAR | N/Av | None. | |
| Xylene (mixed isomers) | 1330-20-7 | 3.2 - 4.9 mg/L/72hr (Green algae) | N/Av | None. | |
| Heavy aromatic solvent naphtha | 64742-94-5 | 7.2 mg/L/72 hours (Green algae) | 0.22 mg/L/72 hours (Green algae) | none | |
| 2-Ethylhexyl nitrate | 27247-96-7 | 1.57 mg/L/72hr (Green algae) | 12.6mg/L/72hr | None. | |
| 2-Ethylhexanol | 104-76-7 | 16.6mg/L/72hr (Green algae) | N/Av | None. | |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | N/Av | N/Av | N/Av | |
| Solvent naphtha (petroleum), medium aliphatic | 64742-88-7 | 1 - 3 mg/L/72hr (Green algae) | 1 mg/L/72hr (Green algae) | None. | |
| o-Xylene | 95-47-6 | 4.7mg/L (Green algae) | N/Av | None. | |
| Dimethylcyclohexylamine, N,N- | 98-94-2 | >2.0mg/L (Green algae) | 0.0625mg/L | None. | |
| Ethylbenzene | 100-41-4 | 3.6 mg/L/96hr (Green algae) | 3.4 mg/L/96hr | None. | |
| Phenol, 2,2'- [(1-methyl-1,2-ethanediyl)bis(nitri lomethylidyne)]bis- | 94-91-7 | 10.27mg/L (Green algae) | N/Av | None. | |

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Persistence and degradability

: No data is available on the product itself. The following ingredients are considered to be readily biodegradable:Solvent Naphtha (Petroleum) Medium Aliphatic, 2-butoxyethanol DMCHA,2-Ethylhexanol,DMD

Bioaccumulation potential

See the following data for ingredient information.

: No data is available on the product itself.

| Components | Partition coefficent n-octanol/ater (log Kow) | Bioconcentration factor (BCF) |
|--|---|----------------------------------|
| Light aromatic solvent naphtha (CAS 64742-95-6) | 2.1 - 6(calculated) | 10 - 2500 |
| 2-Butoxy ethanol (CAS 111-76-2) | 0.81 at 25 °C | 0.97 |
| Naphthalene (CAS 91-20-3) | 3.7 | 30 - 430 species: fish |
| 1,2,4-Trimethylbenzene (CAS 95-63-6) | 3.78 | 31 - 275 |
| Xylene (mixed isomers) (CAS 1330-20-7) | 3.12 - 3.2 | 50 - 58 |
| Heavy aromatic solvent naphtha (CAS 64742-94-5) | >3 - <6.5 | No information available. |
| 2-Ethylhexyl nitrate (CAS 27247-96-7) | 5.24 | No information available. |
| 2-Ethylhexanol (CAS 104-76-7) | 2.9 | 30 |
| Distillates, petroleum, hydrotreated light (CAS 64742-47-8) | 5.1 - 8.8 | No information available. |
| Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7) | N/Av | No information available. |
| o-Xylene (CAS 95-47-6) | 3.12 | 6.2 - 21 |
| Dimethylcyclohexylamine, N,N- (CAS 98-94-2) | 2.01 at 25 °C | 19.8 - 35.66estimated |
| Ethylbenzene (CAS 100-41-4) | 3.15 | 1.1 - 1.5 |
| Phenol, 2,2'- [(1-methyl-1,2-ethanediyl)bis(nit rilomethylidyne)]bis- (CAS 94-91-7) | 3.6 | No information available. |
| obility in soil : | No data is available on the product itself. | |
| ther Adverse Environmental effect | • | |
| : | The ecological characteristics of this product have r Contains material that may be harmful in the enviro allowed to enter drains or water courses, or be deput | nment. The product should not be |

allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. SECTION 13. DISPOSAL CONSIDERATIONS

| Handling for Disposal Methods of Disposal | Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Dispose in accordance with all applicable federal, state, provincial and local regulations. |
|--|--|
| RCRA | : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies. |

| SECTION 14. TRANSPORTATION INFORMATION | | | | | |
|--|-----------|---|----------------------------------|------------------|-------|
| Regulatory Information | UN Number | UN proper shipping name | Transport hazard class(es) | Packing Group | Label |
| 49CFR/DOT | UN1993 | FLAMMABLE LIQUID, N.O.S. (stoddard solvent; Xylene) | 3 | III | 3 |

| 49CFR/DOT Additional information | May be shipped as a Limited Quantity according to packaging section 173.150. This product meets the criteria for an environmentally hazardous material according to the IMDG Code. | | | | | | |
|--|---|----------|--|-----------------------|---------------|--|--|
| TDG | UN1993 | | MMABLE LIQUID, N.O.S. (stoddard solvent; ene) | 3 | III | | |
| TDG Additional information | Under the TD | GR, refe | nited Quantity Exemption may apply for containers which r to section 1.17 for Limited Quantity Exemption informati e criteria for an environmentally hazardous material acco | ion, if shipping unde | er this exemp | | |
| pecial precau | itions for user | • : | Keep away from heat, sparks and open flame. | No smoking. | | | |
| nvironmental | hazards | | | | | | |

the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

| Ingredients | 040.4 | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical | | |
|---|------------|-------------------|---|---|--|-----------------------------|--|
| | CAS # | | | | Toxic Chemical | de minimus Concentration | |
| Light aromatic solvent naphtha | 64742-95-6 | Yes | N/Ap | N/Ap | No | N/Ap | |
| 2-Butoxy ethanol | 111-76-2 | Yes | N/Ap | N/Ap | No | N/Ap | |
| Naphthalene | 91-20-3 | Yes | 100 lb/ 45.4 kg | N/Av | Yes | 0.1% | |
| 1,2,4-Trimethylbenzene | 95-63-6 | Yes | N/Ap | N/Ap | Yes | 1% | |
| Xylene (mixed isomers) | 1330-20-7 | Yes | 100 lb/ 45.4 kg | N/Ap | Yes | 1% | |
| Heavy aromatic solvent naphtha | 64742-94-5 | Yes | N/Ap | N/Ap | No | N/Ap | |
| 2-Ethylhexyl nitrate | 27247-96-7 | Yes | N/Ap | N/Ap | No | N/Ap | |
| 2-Ethylhexanol | 104-76-7 | Yes | N/Ap | N/Ap | No | N/Ap | |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | Yes | N/Ap | N/Ap | No | N/Ap | |
| Solvent naphtha (petroleum), medium aliphatic | 64742-88-7 | Yes | N/Ap | N/Ap | No | N/Ap | |
| o-Xylene | 95-47-6 | Yes | 1000 lb/ 454 kg | N/Ap | Yes | 1% | |
| Dimethylcyclohexylamine , N,N- | 98-94-2 | Yes | N/Ap | N/Ap | No | N/Ap | |
| Ethylbenzene | 100-41-4 | Yes | 1000 lb/ 454 kg | N/Ap | Yes | 0.1% | |
| Phenol, 2,2'- [(1-methyl-1,2-ethanediyl)bis(nitrilomethylidyne)]bi s- | 94-91-7 | Yes | N/Ap | N/Ap | No | N/Ap | |

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Acute Health Hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| Ingredients | CAS # | California Proposition 65 | | State "Right to Know" Lists | | | | | |
|---|------------|---------------------------|------------------|-----------------------------|-----|-----|-----|-----|-----|
| | | Listed | Type of Toxicity | CA | MA | MN | NJ | PA | RI |
| Light aromatic solvent naphtha | 64742-95-6 | No | Not listed | No | No | No | No | No | No |
| 2-Butoxy ethanol | 111-76-2 | No | Not listed | Yes | Yes | Yes | Yes | Yes | Yes |
| Naphthalene | 91-20-3 | Yes | Carcinogen | Yes | Yes | Yes | Yes | Yes | Yes |
| 1,2,4-Trimethylbenzene | 95-63-6 | No | Not listed | No | Yes | Yes | Yes | Yes | No |
| Xylene (mixed isomers) | 1330-20-7 | No | Not listed | Yes | Yes | Yes | Yes | Yes | Yes |
| Heavy aromatic solvent naphtha | 64742-94-5 | No | Not listed | No | No | No | No | No | No |
| 2-Ethylhexyl nitrate | 27247-96-7 | No | Not listed | No | No | No | No | No | No |
| 2-Ethylhexanol | 104-76-7 | No | Not listed | No | Yes | No | No | Yes | No |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | No | Not listed | No | No | No | No | No | No |
| Solvent naphtha (petroleum), medium aliphatic | 64742-88-7 | No | Not listed | No | No | No | Yes | No | No |
| o-Xylene | 95-47-6 | No | Not listed | Yes | Yes | No | Yes | Yes | No |
| Dimethylcyclohexylamine, N,N- | 98-94-2 | No | Not listed | No | No | No | Yes | No | No |
| Ethylbenzene | 100-41-4 | Yes | Cancer | Yes | Yes | Yes | Yes | Yes | Yes |
| Phenol, 2,2'- [(1-methyl-1,2-ethanediyl)b is(nitrilomethylidyne)]bis- | 94-91-7 | No | Not listed | No | No | No | No | No | No |

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Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS Classification: See Section 2.

International Information:

Components listed below are present on the following International Inventory list:

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| Ingredients | CAS # | European EINECs | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|---|------------|--------------------|-------------------|----------------------|-------------------|--------------------|----------------|--|
| Light aromatic solvent naphtha | 64742-95-6 | 265-199-0 | Present | Present | (9)-1698 | KE-31662 | Present | May be used as a single component chemical under an appropriate group standard |
| 2-Butoxy ethanol | 111-76-2 | 203-905-0 | Present | Present | (7)-97; (2)-407 | KE-04134 | Present | HSR001154 |
| Naphthalene | 91-20-3 | 202-049-5 | Present | Present | (4)-311 | KE-25545 | Present | HSR001287 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 202-436-9 | Present | Present | (3)-7; (3)-3427 | KE-34410 | Present | HSR001382 |
| Xylene (mixed isomers) | 1330-20-7 | 215-535-7 | Present | Present | (3)-60; (3)-3 | KE-35427 | Present | HSR000983 |
| Heavy aromatic solvent naphtha | 64742-94-5 | 265-198-5 | Present | Present | (3)-7 | KE-31656 | Present | May be used as a single component chemical under an appropriate group standard |
| 2-Ethylhexyl nitrate | 27247-96-7 | 248-363-6 | Present | Present | (2)-3598 | KE-13803 | Present | May be used as a single component chemical under an appropriate group standard |
| 2-Ethylhexanol | 104-76-7 | 203-234-3 | Present | Present | (2)-217 | KE-13766 | Present | HSR001386 |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 265-149-8 | Present | Present | (9)-1700 | KE-12550 | Present | May be used as a single component chemical under an appropriate group standard |
| Solvent naphtha (petroleum), medium aliphatic | 64742-88-7 | 265-191-7 | Present | Present | (9)-1700 | KE-31664 | Present | May be used as a single component chemical under an appropriate group standard |
| o-Xylene | 95-47-6 | 202-422-2 | Present | Present | (3)-60; (3)-3 | KE-35429 | Present | HSR001237 |
| Dimethylcyclohexylamin e, N,N- | 98-94-2 | 202-715-5 | Present | Present | (3)-2274 | KE-11282 | Present | HSR003584 |
| Ethylbenzene | 100-41-4 | 202-849-4 | Present | Present | (3)-60; (3)-28 | KE-13532 | Present | HSR001151 |
| Phenol, 2,2'- [(1-methyl-1,2-ethanediyl)bis(nitrilomethylidyne)]bi S- | 94-91-7 | 202-374-2 | Present | Present | (3)-513; (3)-1260 | KE-23932 | Present | May be used as a single component chemical under an appropriate group standard Not approved for use as chemical in its own right. |

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists ATE: Acute Toxicity Estimate AICS: Australian Inventory of Chemical Substances CA: California

| | CAS: Chemical Abstract Services |
|-------------------------------------|--|
| | CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act |
| | of 1980 |
| | CFR: Code of Federal Regulations |
| | CNS: Central Nervous System |
| | CSA: Canadian Standards Association |
| | DOT: Department of Transportation |
| | EC50: Effective Concentration 50%. |
| | EINECS: European Inventory of Existing Commercial chemical Substances |
| | ENCS: Existing and New Chemical Substances |
| | EPA: Environmental Protection Agency |
| | HMIS: Hazardous Materials Identification System |
| | HSDB: Hazardous Substances Data Bank |
| | IARC: International Agency for Research on Cancer |
| | Inh: Inhalation |
| | IMDG: International Maritime Dangerous Goods |
| | KECI: Korean Existing Chemicals Inventory |
| | KECL: Korean Existing Chemicals List |
| | LC: Lethal Concentration |
| | LD: Lethal Dose |
| | MA: Massachusetts |
| | MN: Minnesota |
| | MSHA: Mine Safety and Health Administration |
| | N/Ap: Not Applicable |
| | N/Av: Not Available |
| | NFPA: National Fire Protection Association |
| | NIOSH: National Institute of Occupational Safety and Health |
| | NOEC: No observable effect concentration |
| | NTP: National Toxicology Program |
| | NJ: New Jersey |
| | NOEC: No observable effect concentration |
| | OECD: Organisation for Economic Co-operation and Development |
| | OSHA: Occupational Safety and Health Administration |
| | PA: Pennsylvania |
| | PEL: Permissible exposure limit |
| | PICCS: Philippine Inventory of Chemicals and Chemical Substances |
| | RCRA: Resource Conservation and Recovery Act |
| | RI: Rhode Island |
| | RTECS: Registry of Toxic Effects of Chemical Substances |
| | SARA: Superfund Amendments and Reauthorization Act |
| | STEL: Short Term Exposure Limit TDG: Canadian Transportation of Dangerous Goods Act & Regulations |
| | TLV: Threshold Limit Values |
| | |
| | TPQ: Threshold Planning Quantity TSCA: Toxic Substance Control Act |
| | TWA: Time Weighted Average |
| | WHMIS: Workplace Hazardous Materials Identification System |
| References : | Canadian Centre for Occupational Health and Safety (CCOHS), CCInfoWeb |
| References . | databases, 2015 (CHEMINFO, HSDB and RTECS). |
| | OECD- The Global Portal to Information on Chemical Substances - eChemPortal, |
| | 2015 |
| | European Chemicals Agency, Classification Legislation, 2015 |
| | Material Safety Data Sheet from manufacturer |
| | Information taken from reference works and the literature. |
| Preparation Date (mm/dd/yyyy) | |
| | 00/05/0045 |
| : | 08/25/2015 |
| Other special considerations for ha | - |
| : | Provide adequate information, instruction and training for operators. |
| | |

| Prepared for: | |
|---|-------------------------------|
| FPPF Chemical Company, Inc. 117 West Tupper Street | |
| Buffalo, NY, USA 14201 | |
| Telephone: 1-800-735-3773 | |
| Please direct all enquiries to FPPF Chemical Company | |
| Prepared by: | |
| ICC The Compliance Center Inc. | fice Compliance Contor |
| Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com | Sicc Compliance Center |

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