

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Agri Fuel Treatment**

Product Code(s) : US Product Codes: 00351, 90351, 00352P, 00353
Canada Product Codes: 00234, 90234

Recommended use of the chemical and restrictions on use

: Diesel fuel treatment. No restrictions on use known.

Chemical family : Mixture.

Name, address, and telephone number of the manufacturer:**FPPF Chemical Company, Inc.**

117 West Tupper Street
Buffalo, NY, USA
14201

Manufacturer's Telephone # : 1-800-735-3773

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Name, address, and telephone number of the supplier:

Refer to manufacturer

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Colourless to slightly hazy liquid. 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 4

Acute Toxicity, dermal - Category 4

Acute Toxicity, inhalation - Category 4 (vapor)

Skin Irritation - Category 2

Eye Damage/Irritation - Category 2A

Aspiration Toxicity - Category 1

Carcinogenicity-Category 2

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Combustible liquid.

Harmful if inhaled.

Harmful in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May be fatal if swallowed and enters airways.

Suspected of causing cancer.

Precautionary statement(s)

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Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. - No smoking. Avoid breathing vapors or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. 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: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs, get medical advice/attention.

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. 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

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration</u>
Light aromatic solvent naphtha	Aromatic solvent naphtha Solvent Naphtha (Petroleum) Light Aromatic	64742-95-6	0.2 - 3.0
2-Butoxy ethanol	Ethylene Glycol Monobutyl Ether EGBE	111-76-2	10.0 - 20.0
Naphthalene	Moth balls Moth flakes Tar camphor	91-20-3	0.1 - 0.5
1,2,4-Trimethylbenzene	Pseudocumene	95-63-6	0.1 - 0.5
Heavy aromatic solvent naphtha	Aromatic solvent naphtha Heavy Aromatic Naphtha	64742-94-5	0.2 - 3.0
2-Ethylhexyl nitrate	Ethylhexyl nitrate Nitric acid, 2-ethylhexyl ester	27247-96-7	0.5 - 1.5
Distillates, petroleum, hydrotreated light	Hydrotreated kerosene Distillate Fuel Oils Light	64742-47-8	75.0 - 80.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- | | | |
|---------------------|---|--|
| <i>Ingestion</i> | : | 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. |
| <i>Inhalation</i> | : | 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. |
| <i>Skin contact</i> | : | IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse. |
| <i>Eye contact</i> | : | 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. |

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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.
- Harmful if inhaled. Symptoms may include coughing, choking and wheezing.
- Causes skin irritation. Symptoms may include redness, itching and swelling.
- Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- 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.
- Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.

Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights. 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.

Indication of any immediate medical attention and special treatment needed

- : 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

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Combustible liquid and vapor. Keep away from heat and open flames. - No smoking. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. Vapors may travel considerable distance to a source of ignition and flash back. This product will accumulate static charge by flow, splashing or agitation. 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.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquid - Category 4

Hazardous combustion products

- : Carbon oxides. Nitrogen oxides. Reactive hydrocarbons. Aldehydes. Unidentified organic compounds. Other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : 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

- : 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.

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Environmental precautions : 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.

Methods and material for containment and cleaning up

- : 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. Bond and ground transfer containers and equipment to avoid static accumulation. 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)

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 and open flames. - No smoking. May accumulate static charge by flow or agitation. Use only non-sparking tools. Use proper bonding and grounding techniques when transferring liquid. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Avoid breathing mist or vapours. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials.

Conditions for safe storage

- : Store in a well ventilated place. Keep cool. Store locked up. Store away from incompatibles and out of direct sunlight. Take measures to prevent the build up of electrostatic charge. 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. 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.

Incompatible materials

- : Strong oxidizing agents; Acids; Perchloric acid; Alkalies ; Bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<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/m ³	15ppm; 75mg/m ³
1,2,4-Trimethylbenzene	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	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
Distillates, petroleum, hydrotreated light	200 mg/m ³ (as total hydrocarbon vapour)	N/Av	N/Av	N/Av

Exposure controls**Ventilation and engineering measures**

- : Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Use explosion-proof electrical and ventilating equipment. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : If engineering controls and work practices are not effective in controlling exposure to 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. 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

- : Other protective equipment, such as an eyewash station and safety shower, may be required depending on exposure and on workplace standards. 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. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear to slightly hazy amber liquid.

Odour : Solvent odor.

Odour threshold : N/Av

pH : N/Av

Melting/Freezing point : N/Av

Initial boiling point and boiling range

: >160°C / >320°F

Flash point : 61.1°C / 142°F

Flashpoint (Method) : Tag closed cup

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Evaporation rate (BuAe = 1) : Slower than n-butyl acetate
Flammability (solid, gas) : N/Ap
Lower flammable limit (% by vol.) : N/Av
Upper flammable limit (% by vol.) : N/Av
Oxidizing properties : None known.
Explosive properties : N/Av
Vapour pressure : <4mm Hg @ 20°C
Vapour density : >1
Relative density / Specific gravity : 0.83
Solubility in water : Negligible
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) : 90%(approximately)
Volatile organic Compounds (VOC's) : N/Av
Absolute pressure of container : N/Ap
Flame projection length : N/Ap
Other physical/chemical comments : None reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Hazardous polymerization will not occur. May be sensitive to static discharge. May form explosive peroxides during prolonged exposure to air and heat.
Conditions to avoid : Keep away from heat, sparks and flame. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharge. Avoid contact with incompatible materials.
Incompatible materials : Strong 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 absorption : YES

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Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : Harmful if inhaled. Symptoms may include coughing, choking and wheezing.

Sign and symptoms ingestion

- : Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. 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. Causes symptoms similar to those listed for inhalation. 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 may include redness, itching 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 slight liver and kidney effects, such as increased organ weights.

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).

Reproductive effects & Teratogenicity

- : This product is not expected to cause reproductive or developmental effects.

Sensitization to material

- : Not expected to be a skin sensitizer.
Not expected to be a respiratory sensitizer.

Specific target organ effects

- : Eyes, skin, respiratory system and digestive system.

Not classified as a specific target organ toxicity-single exposure.

Not classified as a specific target organ toxicity-repeated exposure.

Medical conditions aggravated by overexposure

- : Pre-existing skin, eye and respiratory disorders.

Synergistic materials

- : None reported by the manufacturer.

Toxicological data

- : The calculated ATE values for this mixture are:
ATE oral = 3533mg/kg
ATE dermal = 1944mg/kg
ATE inhalation (vapours) = 14.2mg/L/4H
ATE inhalation (mists) = 712.5mg/L/4H

See below for individual ingredient acute toxicity data.

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<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Light aromatic solvent naphtha	>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
Naphthalene	No information available.	490 mg/kg	>20,000 mg/kg
1,2,4-Trimethylbenzene	18 mg/L	5000 mg/kg	> 3160 mg/kg
Heavy aromatic solvent naphtha	> 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)
Distillates, petroleum, hydrotreated light	>5.02mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg

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:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
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 marcarius)	>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	7.19 - 8.28 mg/L (Fathead minnow)	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.
Distillates, petroleum, hydrotreated light	64742-47-8	N/Av	N/Av	None.

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<u>Ingredients</u>	CAS No	Toxicity 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	6.14 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.
Distillates, petroleum, hydrotreated light	64742-47-8	N/Av	N/Av	N/Av

<u>Ingredients</u>	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	N/Av	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.
Distillates, petroleum, hydrotreated light	64742-47-8	N/Av	N/Av	N/Av

Persistence and degradability

- : No data is available on the product itself.
The following ingredients are considered to be readily biodegradable: Ethylene glycol monobutyl ether.

Bioaccumulation potential

- : No data is available on the product itself.

See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/ater (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Light aromatic solvent naphtha (CAS 64742-95-6)	2.1 - 6(calculated)	No information available.
2-Butoxy ethanol (CAS 111-76-2)	0.81 at 25 °C	No information available.
Naphthalene (CAS 91-20-3)	3.7	30 - 430 species: fish
1,2,4-Trimethylbenzene (CAS 95-63-6)	3.78	No information available.
Heavy aromatic solvent naphtha (CAS 64742-94-5)	2.9 - 6.1	61 - 159 species: fish
2-Ethylhexyl nitrate (CAS 27247-96-7)	5.24	No information available.
Distillates, petroleum, hydrotreated light (CAS 64742-47-8)	5.1 - 8.8	No information available.

Mobility in soil

- : No data is available on the product itself.

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Other Adverse Environmental effects

- : The ecological characteristics of this product have not been fully investigated. Contains material that may be harmful in the environment. 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** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
- Methods of Disposal** : 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	NA1993	Combustible liquid, n.o.s. (Petroleum distillates; Ethylene glycol monobutyl ether)	Combustible.	III	
49CFR/DOT Additional information	Not regulated for road or rail shipment if packaged in non-bulk containers (450 Litres or less each). The 'label' appearing here is the placard to be used for bulk shipments.				
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				

- Special precautions for user** : Keep away from heat and open flames. - No smoking.
- Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to 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:

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<u>Ingredients</u>	CAS #	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	
					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/Av	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%
Heavy aromatic solvent naphtha	64742-94-5	Yes	N/Ap	N/Av	No	N/Ap
2-Ethylhexyl nitrate	27247-96-7	Yes	N/Ap	N/Av	No	N/Ap
Distillates, petroleum, hydrotreated light	64742-47-8	Yes	N/Ap	N/Av	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:

<u>Ingredients</u>	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
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
Distillates, petroleum, hydrotreated light	64742-47-8	No	Not listed	No	No	No	No	No	No

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	New Zealand 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
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
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

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

SAFETY DATA SHEET

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 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)

: 05/27/2015

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<u>Prepared for:</u> 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	
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