



Liquid Muscle

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label  
: **Liquid Muscle**

Other means of identification : 80224

Recommended use of the chemical and restrictions on use

- : Fuel additive.
- Restrictions on use : Not intended for use by children.

Chemical family : Mixture.

Name, address, and telephone number  
of the supplier:

**FPPF Chemical Company, Inc.**

117 West Tupper Street  
Buffalo, NY, USA 14201

Name, address, and telephone number of  
the manufacturer:

Refer to supplier

Supplier's Telephone # : (800) 735-3773

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

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Amber liquid. Petroleum odor.

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

Specific target organ toxicity, single exposure - Category 3 (narcotic effects)

Specific target organ toxicity, single exposure - Category 3 (respiratory)

Aspiration Toxicity - Category 1

Label elements

Hazard pictogram(s)



Signal Word

**DANGER!**

Hazard statement(s)

- Flammable liquid and vapor.
- May cause drowsiness and dizziness.
- May cause respiratory irritation.
- May be fatal if swallowed and enters airways.



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*Precautionary statement(s)*

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.  
Ground and bond container and receiving equipment.  
Use explosion-proof electrical and ventilating equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing mist or vapor.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves and eye/face protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.  
In case of fire: Use alcohol-resistant foam, carbon dioxide or dry chemical to extinguish.

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**

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May be mildly irritating to eyes and skin. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
<b>Solvent naphtha (petroleum), medium aliphatic</b>	Medium aliphatic solvent naphtha; White Spirit	64742-88-7	<b>80.0 - 100.0</b>
<b>2-Ethylhexyl nitrate</b>	Nitric acid ,2-Ethylhexyl Ester	27247-96-7	<b>0.5 - 1.5</b>
<b>Heavy aromatic solvent naphtha</b>	Aromatic solvent naphtha Heavy Aromatic Naphtha	64742-94-5	<b>0.5 - 1.5</b>

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**

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Material is an aspiration hazard. Guard against aspiration into lungs by having the individual turn on their left side. 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 CENTER or doctor/physician if you feel unwell. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration.
- Skin contact* : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.



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### Most important symptoms and effects, both acute and delayed

- : 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. May cause drowsiness and dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.
- Direct eye contact may cause slight or mild, transient irritation.
- Direct skin contact may cause slight or mild, transient irritation.

### Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### *Suitable extinguishing media*

- : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### *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

- : Flammable liquid and vapor. Keep away from heat, sparks and open flame. This product will accumulate static charge by flow, splashing or agitation. Vapors may travel considerable distance to a source of ignition and flash back. Vapours are heavier than air and 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 Liquids - Category 3

### Hazardous combustion products

- : None reported by the manufacturer. In the event of fire the following can be released: Carbon oxides, nitrogen oxides, aldehydes and other irritating fumes and smoke.

### Special protective equipment and precautions for firefighters

#### *Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

#### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Use water spray to cool unopened containers. Avoid spreading burning liquid with water spray used for cooling purposes. Do not allow run-off from fire fighting to enter drains or water courses. Prevent fire extinguishing water from contaminating surface water or the ground water system. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists. Restrict access to area until completion of clean-up. Remove all sources of ignition. All persons dealing with the clean-up should wear the appropriate personal protective equipment. For personal protection see section 8.

### Environmental precautions

- : Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. For large spills, dike the area to prevent spreading.



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### 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. Do not use combustible absorbents, such as sawdust. Bond and ground transfer containers and equipment to avoid static accumulation. Contaminated absorbent material may pose the same hazards as the spilled product. Pick up and transfer to properly labeled containers. 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): See section 15.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- : Keep away from heat, sparks and open flames. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Bond and ground transfer containers and equipment. Use explosion-proof electrical and ventilating equipment. Use non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Avoid breathing mist or vapor. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid contact with incompatible materials. Encourage good housekeeping and personal hygiene.

- Conditions for safe storage** : Store in a well ventilated place. Keep cool. Store locked up. Keep container tightly closed. Store away from incompatibles and out of direct sunlight. 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.

- Incompatible materials** : Strong oxidizing agents ;Acids and bases ;Reducing agents

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
	Solvent naphtha (petroleum), medium aliphatic	N/Av	N/Av	N/Av
2-Ethylhexyl nitrate	N/Av	N/Av	N/Av	N/Av
Heavy aromatic solvent naphtha	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	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. 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.



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- 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** : 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. Wash thoroughly after handling. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. 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** : Amber liquid.
- Odour** : Petroleum odor.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting Point/Freezing point** : N/Av
- Initial boiling point and boiling range** : 284°F(140°F) estimated
- Flash point** : 43.9°C / 111°F
- Flashpoint (Method)** : Tag closed cup
- Evaporation rate (BuAe = 1)** : < 1
- Flammability (solid, gas)** : N/Av
- Lower flammable limit (% by vol.)** : 0.6 %
- Upper flammable limit (% by vol.)** : 6.5 %
- Oxidizing properties** : None.
- Explosive properties** : Not explosive
- Vapour pressure** : N/Av
- Vapour density** : > 1
- Relative density / Specific gravity** : 0.79
- Solubility in water** : practically insoluble
- 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 (VOC's)** : N/Av



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### 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.

Conditions to avoid : Keep away from heat, sparks and open flame. Take precautionary measures against static discharge. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.

Incompatible materials : Strong oxidizing agents; Acids and bases; Reducing agents

### Hazardous decomposition products

: None reported by the manufacturer. In the event of fire the following can be released: Carbon oxides ; Nitrogen oxides (NOx) ; Aldehydes ; irritating fumes and smoke

## 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

: NO

### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

: Inhalation may cause respiratory irritation and central nervous system depression. Inhalation may provoke the following symptoms: Drowsiness ; Dizziness ; Respiratory tract irritation, coughing and wheezing.

##### *Sign and symptoms ingestion*

: 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 irritate digestive tract and cause nausea, vomiting and diarrhea. Ingestion may cause symptoms similar to inhalation.

##### *Sign and symptoms skin*

: Direct skin contact may cause slight or mild, transient irritation.

##### *Sign and symptoms eyes*

: Direct eye contact may cause slight or mild, transient irritation.

#### Potential Chronic Health Effects

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

#### Reproductive effects & Teratogenicity

: Not classifiable as a reproductive toxin.

Sensitization to material : Not expected to be a skin sensitizer.

Not expected to be a respiratory sensitizer.



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**Specific target organ effects** : Eyes, skin, respiratory system, digestive system, central nervous 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.

Specific target organ toxicity, single exposure - Category 3 (respiratory)  
 May cause respiratory irritation.

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye, respiratory and central nervous system disorders.

**Synergistic materials**

: None reported by the manufacturer.

**Toxicological data**

: The calculated ATE values for this mixture are:  
 ATE oral = Not applicable.  
 ATE dermal = 208333 mg/kg  
 ATE inhalation (mists) = 1425mg/L/4H  
 See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Solvent naphtha (petroleum), medium aliphatic	21.4 mg/L	>5000 mg/kg	>2000 mg/kg
2-Ethylhexyl nitrate	>4.6mg/L	960mg/kg	N/Av
Heavy aromatic solvent naphtha	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 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. Should not be released into the environment. See the following tables for the substance's 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>
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	2 - 5 mg/L (Rainbow trout)	0.098 mg/L/28-day QSAR NOEL	None.
2-Ethylhexyl nitrate	27247-96-7	2mg/L (Zebra fish)	N/Av	None.
Heavy aromatic solvent naphtha	64742-94-5	3.6 mg/L (Rainbow trout)	N/Av	None.



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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1.4 mg/L Water flea	0.48 mg/L QSAR NOEL Water flea	None.
2-Ethylhexyl nitrate	27247-96-7	>12.6mg/L	N/Av	None.
Heavy aromatic solvent naphtha	64742-94-5	1.1 mg/L Water flea	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1 - 3 mg/L/72hr (Green algae)	1 mg/L/72hr (Green algae) NOEL	None.
2-Ethylhexyl nitrate	27247-96-7	<0.8mg/L	1.42mg/L	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.

**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

**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/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Heavy aromatic solvent naphtha	2.9 - 6.1	No information available.
Solvent naphtha (petroleum), medium aliphatic	N/Av	No information available.
2-Ethylhexyl nitrate	5.24	1332

**Mobility in soil**

- : No data is available on the product itself.

**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.










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### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1993	FLAMMABLE LIQUID, N.O.S. (Aliphatic Naphtha)	3	III	
<b>49CFR/DOT Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Aliphatic Naphtha)	3	III	
<b>TDG Additional information</b>	This material may be shipped as non-regulated material when in small means of containment (<450 Litres; or 'non-bulk' containers such as 60 L drums), provided the requirements of TDG section 1.33 are met. This product meets the criteria for an environmentally hazardous material according to the IMDG Code.				
ICAO/IATA	UN1993	Flammable liquid, n.o.s. (Aliphatic Naphtha)	3	III	
<b>ICAO/IATA Additional information</b>	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Aliphatic Naphtha)	3	III	 
<b>IMDG Additional information</b>	Consult the IMDG regulations for exceptions.				

**Special precautions for user** : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

**Environmental hazards** : This product meets the criteria for an environmentally hazardous material 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:

Ingredients	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
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	Yes	None.	N/Ap	No	N/Ap
2-Ethylhexyl nitrate	27247-96-7	Yes	None.	N/Ap	No	N/Ap
Heavy aromatic solvent naphtha	64742-94-5	Yes	None.	N/Ap	No	N/Ap



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SARA TITLE III: Sec. 311 and 312, SDS Requirements: Flammable ; Aspiration hazard ; Specific target organ toxicity, single exposure .

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or 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
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	No	Not listed	No	No	No	Yes	No	No
2-Ethylhexyl nitrate	27247-96-7	No	Not listed	No	No	NS	No	Yes	NS
Heavy aromatic solvent naphtha	64742-94-5	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:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
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.
2-Ethylhexyl nitrate	27247-96-7	248-363-6	Present	Listed	(2)-3598	KE-13803	Listed	May be used as a single component chemical under an appropriate group standard.
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.

**SECTION 16. OTHER INFORMATION**

**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
 ATE: Acute Toxicity Estimate



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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  
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  
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** : Material Safety Data Sheet from manufacturer.  
OECD - The Global Portal to Information on Chemical Substances  
European Chemicals Agency, Classification Legislation

**Preparation Date (mm/dd/yyyy)**

: 04/02/2020



FPPF Chemical Company, Inc.  
117 West Tupper Street  
Buffalo, NY, USA, 14201  
Telephone: (800) 735-3773

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### **Other special considerations for handling**

: 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

## **DISCLAIMER**

The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. FPPF Chemical Company, Inc expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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**END OF DOCUMENT**