



SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Meltdown Diesel Fuel Treatment**

Product Code(s) : US Product Codes: 00124, 90124, 00330, 90330, 00170
Canada Product Codes: 00232,90232,00233,90233

Recommended use of the chemical and restrictions on use

: Fuel system 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

Light amber liquid. Hydrocarbon 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

Serious eye damage/eye irritation - Category 1

Aspiration Toxicity - Category 1

Specific Target Organ Toxicity, Single Exposure - Category 3 (cns)

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Flammable liquid and vapour

Causes serious eye damage.

May be fatal if swallowed and enters airways.

May cause drowsiness and dizziness.

Precautionary statement(s)

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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 and eye/face protection. Avoid breathing mist or vapours. Use only outdoors or in a well-ventilated area.

In case of fire, use dry chemical, CO₂, or alcohol foam to extinguish.
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.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.
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. Keep container tightly closed.

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: Burning produces obnoxious and toxic fumes. May be sensitive to static discharge. May cause mild skin irritation. 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> |
|------------------------------------|--|--------------|----------------------|
| Stoddard solvent (mineral spirits) | Mineral spirits White spirit | 8052-41-3 | 50.0 - 70.0 |
| n-Propanol | n-Propyl alcohol Ethyl carbinol Hydroxypropane | 71-23-8 | 30.0 - 50.0 |

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

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Aspiration hazard if swallowed - can enter lungs and cause damage. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Never give anything by mouth to a person who is unconscious or is having convulsions
- 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 has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only.
- Skin contact* : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.

Most important symptoms and effects, both acute and delayed

- : Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis.
May cause drowsiness and dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
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 mild skin irritation. Symptoms may include mild redness and swelling.
- Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

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Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Provide general supportive measures and treat symptomatically. 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

- : Flammable liquid and vapour Keep away from heat, sparks, and open flames. Product may float, and be re-ignited at the water's surface. 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. This product will accumulate static charge by flow, splashing or agitation. Closed containers may build up pressure when exposed to heat and flame.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquid - Category 3

Hazardous combustion products

- : Irritating or noxious fumes, acrid smoke, and carbon oxides.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing. 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.

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. Bond and ground transfer containers and equipment to avoid static accumulation. 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. 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: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): None.

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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : 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 and eye/face protection. Avoid breathing vapour or mist. Do not ingest. Avoid contact with skin, eyes and clothing. Wash hands before eating, drinking or smoking. Avoid contact with incompatible materials.

Conditions for safe storage

- : Store in 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 Strong acids Alkali metals Alkaline earth metals

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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> |
| Stoddard solvent (mineral spirits) | 100 ppm | N/Av | 500 ppm (2900 mg/m ³) | N/Av |
| n-Propanol | 100 ppm | N/Av | 200 ppm (500 mg/m ³) | 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. Use explosion-proof equipment. 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. 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 equipment may be required depending on workplace standards. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. 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** : Light amber liquid.
- Odour** : Characteristic aromatic hydrocarbon odour
- Odour threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : N/Av

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Initial boiling point and boiling range

| | |
|--|--------------------------------------|
| | : Approximately 121°C / 250°F |
| Flash point | : 48.9°C / 120°F |
| Flashpoint (Method) | : Tag closed cup |
| Evaporation rate (BuAe = 1) | : <1 |
| Flammability (solid, gas) | : N/Av |
| Lower flammable limit (% by vol.) | : 1.0% |
| Upper flammable limit (% by vol.) | : 12.0% |
| Oxidizing properties | : None known. |
| Explosive properties | : N/Av |
| Vapour pressure | : Approximately 10 |
| Vapour density | : >1 |
| Relative density / Specific gravity | : 0.85 |
| 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 (VOC's) | : N/Av |
| Absolute pressure of container | : N/Av |
| Flame projection length | : N/Av |
| 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. |
| Conditions to avoid | : Keep away from heat, sparks and flame. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. |
| Incompatible materials | : Strong oxidizing agents Strong acids Alkali metals Alkaline earth metals |
| Hazardous decomposition products | : None reported. 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 | : NO |

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Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Sign and symptoms ingestion

- : May cause gastrointestinal discomfort. Symptoms may include severe abdominal pain, nausea and vomiting. 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

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

Sign and symptoms eyes

- : Causes serious eye damage. 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.

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 expected to be cause reproductive effects.

Sensitization to material

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

Specific target organ effects

- : Eyes, skin, respiratory system, digestive system, central nervous system.

This material is not 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 1 May cause drowsiness or dizziness.

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

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 =4657mg/kg
 ATE dermal =10125mg/kg
 ATE inhalation (vapours) =35.7mg/L/4H

See below for individual ingredient acute toxicity data.

| Chemical name | LC ₅₀ (4hr) inh, rat | LD ₅₀ | |
|------------------------------------|---|------------------|------------------|
| | | (Oral, rat) | (Rabbit, dermal) |
| Stoddard solvent (mineral spirits) | > 5.5 mg/L (vapour) | > 5000 mg/kg | > 3000 mg/kg |
| n-Propanol | > 13 548 ppm (33.8 mg/L) (vapour) (No mortality) | 1870 mg/kg | 4050 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.

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Ecotoxicity data:

| <u>Ingredients</u> | CAS No | Toxicity to Fish | | |
|------------------------------------|-----------|-----------------------------------|---------------|----------|
| | | LC50 / 96h | NOEC / 21 day | M Factor |
| Stoddard solvent (mineral spirits) | 8052-41-3 | 2.1 - 4.2 mg/L (Bluegill sunfish) | N/Av | None. |
| n-Propanol | 71-23-8 | 4555 mg/L (Fathead minnow) | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Daphnia | | |
|------------------------------------|-----------|---|-----------------|----------|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| Stoddard solvent (mineral spirits) | 8052-41-3 | 0.42 - 2.3 mg/L (Daphnia magna) (Closed systems - low end; Open systems - high end) | 0.1 - 0.37 mg/L | None. |
| n-Propanol | 71-23-8 | 3644 mg/L (Daphnia magna) | > 100 mg/L | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Algae | | |
|------------------------------------|-----------|--|-------------------|----------|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Stoddard solvent (mineral spirits) | 8052-41-3 | 0.58 - 1.2 mg/L/72hr (Green algae) (Closed systems - low end; Open systems - high end) | 0.16 mg/L/72hr | None. |
| n-Propanol | 71-23-8 | N/Av | N/Av | None. |

Persistence and degradability

: No data is available on the product itself. 1-Propanol: Expected to be readily biodegradable. Stoddard solvent: Expected to be inherently biodegradable.

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> |
|--|---|--------------------------------------|
| Stoddard solvent (mineral spirits) (CAS 8052-41-3) | 3.16 - 7.06 | N/Av |
| n-Propanol (CAS 71-23-8) | 1.6 | 3 |

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. 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. 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; n-propanol) | 3 | III |  |
| 49CFR/DOT Additional information | This material may be reclassified as a 'Combustible liquid', when shipping by ground within the United States only. Combustible liquids may be shipped as non-hazardous material when shipped in non-bulk containers (450 L / 119 Gallons or less). Refer to 49 CFR Section 173.150. This product meets the criteria for an environmentally hazardous material according to the IMDG Code. | | | | |
| TDG | UN1993 | FLAMMABLE LIQUID, N.O.S. (stoddard solvent; n-propanol) | 3 | III |  |
| TDG Additional information | This material may be shipped as non-regulated material when in small means of containment (<450 Litres), 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. | | | | |

- Special precautions for user** : Keep away from heat, sparks and open flame. - No smoking.
- Environmental hazards** : This mixture 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 |
| Stoddard solvent (mineral spirits) | 8052-41-3 | Yes | None. | None. | No | N/Ap |
| n-Propanol | 71-23-8 | Yes | None. | None. | 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 |
| Stoddard solvent (mineral spirits) | 8052-41-3 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |
| n-Propanol | 71-23-8 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |

Canadian Information:

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

Canadian WHMIS Classification: See Section 2.

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International Information:

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

| <u>Ingredients</u> | <u>CAS #</u> | <u>European EINECS</u> | <u>Australia AICS</u> | <u>Philippines PICCS</u> | <u>Japan ENCS</u> | <u>Korea KECI/KECL</u> | <u>China IECSC</u> | <u>NewZealand IOC</u> |
|------------------------------------|--------------|------------------------|-----------------------|--------------------------|--------------------|------------------------|--------------------|-----------------------|
| Stoddard solvent (mineral spirits) | 8052-41-3 | 232-489-3 | Present | Present | (9)-1702; (9)-1702 | KE-32199 | Present | HSR001498 |
| n-Propanol | 71-23-8 | 200-746-9 | Present | Present | (2)-207 | KE-29362 | Present | HSR001215 |

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
 ATE: Acute Toxicity Estimate
 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
 IMDG: International Maritime Dangerous Goods
 Inh: Inhalation
 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
 NJ: New Jersey
 NIOSH: National Institute of Occupational Safety and Health
 NTP: National Toxicology Program
 NOEC: No observable effect concentration
 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

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References : Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2015 (Chempendium, RTECs, HSDB, INCHEM). European Chemicals Agency, Classification Legislation, 2015 Information taken from reference works and the literature. Material Safety Data Sheet from manufacturer OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015 National occupational exposure limits

Preparation Date (mm/dd/yyyy) : 05/24/2015

Other special considerations for handling : Provide adequate information, instruction and training for operators.

| | |
|--|--|
| <p><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</p> | |
| <p><u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p> |  |

DISCLAIMER

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