

## SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION

## Product identifier used on the label

: **Air Brake Conditioner**

## Product Code(s)

: US Product Codes: 00157, 90157, 00158, 90158, 00159  
Canadian Product Codes: None known.

## Recommended use of the chemical and restrictions on use

: Automotive - Brake System No restrictions on use known.

## Chemical family

: Alcohol

## 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

Clear colourless liquid.

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 2

Acute toxicity Oral Category 3

Acute toxicity Dermal Category 3

Acute toxicity Inhalation Category 3

Eye Damage/Irritation - Category 2A

Reproductive Toxicity - Category 2

Specific Target Organ Toxicity, Single Exposure - Category 1

## Label elements

## Hazard pictogram(s)



## Signal Word

DANGER!

## Hazard statement(s)

Highly flammable liquid and vapour

Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

Causes damage to the optic nerve and central nervous system.

## Precautionary statement(s)

## SAFETY DATA SHEET

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/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Do not breathe vapours or spray mist. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

In case of fire: Use alcohol-resistant foam, carbon dioxide or dry chemical to extinguish. IF exposed: Call a POISON CENTRE or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTRE or doctor/physician if you feel unwell. 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. Rinse mouth.

Store in 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: May be sensitive to static discharge. Vapors may cause flash fires. Burning produces obnoxious and toxic fumes. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. May cause skin irritation. 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>
Methanol	Carbinol Methyl hydrate Methyl alcohol	67-56-1	99.0 - 100.0

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Immediately call a POISON CENTRE or doctor/physician. Rinse mouth. Do not induce vomiting, unless directed to do so by qualified medical personnel. Never give anything by mouth to an unconscious person.
- Inhalation* : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician. 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. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
- 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.

## SAFETY DATA SHEET

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

- : If exposed or concerned: Call a POISON CENTER or doctor/physician.
- Toxic if inhaled. Symptoms may include coughing, choking and wheezing. Inhalation of methanol vapours may cause substantial visual effects, including irritation, blurred vision, and blindness. May cause irritation to the nose, throat and upper respiratory tract. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May result in unconsciousness and possibly death.
- Toxic in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation.
- Toxic if swallowed. May be fatal or cause blindness if swallowed in sufficient quantities. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Swallowing methanol is life threatening. May result in unconsciousness and possibly death. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Causes serious eye irritation. Symptoms may include a burning sensation, pain, watering, and/or changes in vision (blurred vision). Methanol is known to cause appreciable eye irritation, and possible blindness.
- Suspected of damaging the unborn child. May cause fetotoxic (toxic to the fetus during the latter stages of pregnancy, often through the placenta) and teratogenic effects (causing malformations of the fetus), based on animal information.
- Causes damage to organs. Causes damage to the optic nerve and central nervous system. Direct skin contact may cause slight or mild, transient irritation. Symptoms may include changes in organ weight.
- Prolonged exposure to high vapour concentrations can cause headache, dizziness, nausea, central nervous system depression, and narcosis. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

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

- : Treat same as methanol poisoning. 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 water jet, as this may spread burning material.

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

- : Highly flammable liquid and vapour Keep away from heat, sparks, and open flames. Vapours may be heavier than air and may collect in confined and low-lying areas. Vapour can travel considerable distance and flashback to a source of ignition. Product may ignite when exposed to heat, sparks and direct flame. Material will float on water and can be re-ignited at the water's surface. May be sensitive to static discharge. 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 2

### Hazardous combustion products

- : Carbon oxides; formaldehyde; 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.

## SAFETY DATA SHEET

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

- : Immediately 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. For large spills, dike the area to prevent spreading.

#### 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. Dike for water control. 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): Methanol (5000 lbs / 2270 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. Keep away from heat, open flames and hot surfaces. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Use only outdoors or in a well-ventilated area.  
Do not breathe mist or vapors. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid contact with incompatible materials.

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

### 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>
Methanol	200 ppm (skin)	250 ppm (skin)	200 ppm (260 mg/m <sup>3</sup> )	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.

**SAFETY DATA SHEET**

- 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** : Do not breathe mist or vapors. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. 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, colorless liquid.
- Odour** : Mild. Alcohol odour.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : -144.04°F (-97.8°C)estimated
- Initial boiling point and boiling range** : 148.6°F (64.7°C)
- Flash point** : 12°C / 54°F
- Flashpoint (Method)** : Tag closed cup
- Evaporation rate (BuAe = 1)** : 3.5
- Flammability (solid, gas)** : N/Av
- Lower flammable limit (% by vol.)** : 5.5%
- Upper flammable limit (% by vol.)** : 36.5%
- Oxidizing properties** : None known.
- Explosive properties** : Not explosive
- Vapour pressure** : 96mm Hg
- Vapour density** : 1.1
- Relative density / Specific gravity** : 0.8
- Solubility in water** : Complete
- Other solubility(ies)** : N/Av
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Av
- Auto-ignition temperature** : 464°F (240°C)estimated
- Decomposition temperature** : N/Av
- Viscosity** : 0.75mm²/s at20°C
- Volatiles (% by weight)** : 100%estimated
- Volatile organic Compounds (VOC's)** : 100%estimated
- 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.

## SAFETY DATA SHEET

<b>Chemical stability</b>	: Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	: Hazardous polymerization does not occur. May be sensitive to static discharge.
<b>Conditions to avoid</b>	: Keep away from heat, sparks and open flame. - No smoking. Keep away from direct sunlight. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
<b>Incompatible materials</b>	: Strong oxidizing agents; Hydrogen peroxide; Reactive metals ;Acids .
<b>Hazardous decomposition products</b>	: None reported by the manufacturer. Refer also to hazardous combustion products, Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

<b>Routes of entry inhalation</b>	: YES
<b>Routes of entry skin &amp; eye</b>	: YES
<b>Routes of entry Ingestion</b>	: YES
<b>Routes of exposure skin absorption</b>	: YES

#### Potential Health Effects:

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

###### *Sign and symptoms Inhalation*

- : Toxic if inhaled. Symptoms may include coughing, choking and wheezing. Inhalation of methanol vapours may cause substantial visual effects, including irritation, blurred vision, and blindness. May cause irritation to the nose, throat and upper respiratory tract. May result in unconsciousness and possibly death.

###### *Sign and symptoms ingestion*

- : Toxic if swallowed. May be fatal or cause blindness if swallowed in sufficient quantities. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Swallowing methanol is life threatening. May result in unconsciousness and possibly death. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea.

###### *Sign and symptoms skin*

- : Toxic in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation.

###### *Sign and symptoms eyes*

- : Causes serious eye irritation. Symptoms may include a burning sensation, pain, watering, and/or changes in vision (blurred vision). Methanol is known to cause appreciable eye irritation, and possible blindness.

##### Potential Chronic Health Effects

- : Causes central nervous system depression. Inhalation of methanol vapours may cause substantial visual effects, including irritation, blurred vision, and blindness. Causes damage to the optic nerves (eyes) if swallowed. Prolonged or repeated skin contact may cause defatting and drying resulting in irritation and possible dermatitis.

##### Mutagenicity

- : Not expected to be mutagenic in humans.

##### Carcinogenicity

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

##### Reproductive effects & Teratogenicity

- : 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. Methanol has been shown to produce fetotoxicity in the embryo or fetus in laboratory animals.

##### Sensitization to material

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

## SAFETY DATA SHEET

**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 1  
Causes damage to the optic nerves (eyes) if swallowed. Inhalation of methanol vapours may cause substantial visual effects, including irritation, blurred vision, and blindness.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Medical conditions aggravated by overexposure**

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

**Synergistic materials**

: Not available.

**Toxicological data**

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	LC <sub>50</sub> (4hr)	LD <sub>50</sub>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Methanol	> 5000 ppm/6H (4.1 mg/L/4H (vapour)	The estimated human lethal dose is: 300 - 1000 mg/kg	> 393 mg/kg (Monkey)

**Other important toxicological hazards**

: None 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>	CAS No	Toxicity to Fish		
		LC <sub>50</sub> / 96h	NOEC / 21 day	M Factor
Methanol	67-56-1	15 400 mg/L (Bluegill sunfish)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC <sub>50</sub> / 48h	NOEC / 21 day	M Factor
Methanol	67-56-1	> 10 000 mg/L (Daphnia magna)	208 mg/L (QSAR)	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC <sub>50</sub> / 96h or 72h	NOEC / 96h or 72h	M Factor
Methanol	67-56-1	22 000 mg/L/96hr (Green algae)	N/Av	None.

**Persistence and degradability**

: No data is available on the product itself. Methanol is readily biodegradable.

**Bioaccumulation potential**

: No data is available on the product itself. See the following data for ingredient information.

## SAFETY DATA SHEET

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Methanol (CAS 67-56-1)	-0.74	N/Av

**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. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. 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

<b>Regulatory Information</b>	<b>UN Number</b>	<b>UN proper shipping name</b>	<b>Transport hazard class(es)</b>	<b>Packing Group</b>	<b>Label</b>
TDG	UN1230	METHANOL	3	II	 
<b>TDG Additional information</b>	This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code.				
49CFR/DOT	UN1230	METHANOL	3	II	 
<b>49CFR/DOT Additional information</b>	US CERCLA Reportable quantity (RQ): (5000 lbs / 2270 kg) This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code.				

**Special precautions for user** : Keep away from heat, sparks and open flame. - 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:

<u><b>Ingredients</b></u>	<b>CAS #</b>	<b>TSCA Inventory</b>	<b>CERCLA Reportable Quantity(RQ) (40 CFR 117.302):</b>	<b>SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:</b>	<b>SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical</b>	
					<b>Toxic Chemical</b>	<b>de minimus Concentration</b>
Methanol	67-56-1	Yes	5000 lbs / 2270 kg	None.	Yes	1%



## SAFETY DATA SHEET

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
Methanol	67-56-1	Yes	Developmental	Yes	Yes	Yes	Yes	Yes	Yes

### Canadian Information:

All ingredients are present on the DSL. Refer to Section 2 for a WHMIS Classification for this product.

### 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	New Zealand IOC
Methanol	67-56-1	200-659-6	Present	Present	(2)-201	KE-23193	Present	HSR001186

## 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  
 IECSC: Inventory of Existing Chemical Substances  
 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  
 NIOSH: National Institute of Occupational Safety and Health  
 NJ: New Jersey  
 NOEC: No observable effect concentration

**SAFETY DATA SHEET**

NTP: National Toxicology Program  
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  
SDS: Safety Data Sheet  
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**

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

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

: 05/31/2015

**Other special considerations for handling**

- : Provide adequate information, instruction and training for operators.

<b><u>Prepared for:</u></b> 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	
<b><u>Prepared by:</u></b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a>	

**DISCLAIMER**

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