



FPPF Truck Wash

SDS Preparation Date (mm/dd/yyyy): 08/02/2020

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **FPPF Truck Wash**

Other means of identification : 00361, 00362P, 00363

Recommended use of the chemical and restrictions on use

: Vehicle wash
No restrictions on use known.

Chemical family

: Mixture.

Name, address, and telephone number
of the supplier:

FPPF Chemical Company, Inc.

117 West Tupper Street
Buffalo, NY, USA 14201

Supplier's Telephone #

: (800) 735 3773

24 Hr. Emergency Tel #

: PERS: North America 1-800-633-8253; International: +1-801-629-0667

Contract number: 8027

Name, address, and telephone number of
the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Orange liquid. Faint odour.

Most important hazards: Causes skin and eye burns. May cause respiratory irritation.

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:

Skin Corrosion/Irritation - Category 1

Serious eye damage/eye irritation - Category 1

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Causes severe skin burns and eye damage.



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Precautionary statement(s)

Do not breathe dust or mist.
 Wash hands and face thoroughly after handling.
 Wear protective gloves/clothing and eye/face protection.

Immediately call a POISON CENTER or doctor/physician.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re-use.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. If mists are formed, inhalation may cause moderate irritation of the nose, throat and respiratory tract. 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>
Tetrasodium ethylenediamine tetraacetate	Edetate sodium; Edetic acid tetrasodium salt; Na4EDTA; Tetrasodium EDTA	64-02-8	1.0 - 5.0
Sodium xylene sulphonate	Sodium dimethylbenzene sulfonate; Benzene sulfonic acid; Dimethyl, sodium salt; Xylene sulfonic acid, sodium salt	1300-72-7	1.0 - 5.0
Sodium lauryl ether sulphate	(C10-C16)Alkyl ethoxylate sulfuric acid, sodium salt	68585-34-2	1.0 - 5.0
Sodium metasilicate pentahydrate	Silicic acid (H2SiO3), disodium salt, pentahydrate Sodium silicate hydrate	10213-79-3	1.0 - 5.0
sodium hydroxide	Caustic soda	1310-73-2	0.1 - 1.0

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

SECTION 4. FIRST-AID

MEASURES Description of first aid

Ingestion measures : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. Call a physician or poison control center immediately.



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- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Immediately call a POISON CENTER or doctor/physician.
- Skin contact* : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Flush skin thoroughly with running water for at least 15 to 20 minutes. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
- 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 20 minutes. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

- : Causes severe skin burns and eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. Ingestion may cause severe irritation to the mouth, throat and stomach. Symptoms include: Gastrointestinal discomfort, nausea, vomiting, cramping and diarrhea.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Treat symptomatically.

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

- : Not flammable under normal conditions of use. 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)

- : Non-flammable.

Hazardous combustion products

- : Carbon oxides; Silicon oxides; Sulfur oxides; Sodium oxides; 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



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: Keep all other personnel upwind and away from the spill/release. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Individuals involved in the cleanup must wear alkali resistant personal protective equipment. 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. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Pick up and transfer to properly labeled 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): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Wear protective gloves and eye/face protection. Wash hands and face thoroughly after handling. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. 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 acids Bases Oxidizing agents Reducing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Tetrasodium ethylenediamine tetraacetate	N/Av	N/Av	N/Av	N/Av
Sodium xylene sulphonate	N/Av	N/Av	N/Av	N/Av
Sodium lauryl ether sulphate	N/Av	N/Av	N/Av	N/Av
Sodium metasilicate pentahydrate	N/Av	N/Av	N/Av	N/Av
sodium hydroxide	2 mg/m ³ (Ceiling)	N/Av	2 mg/m ³	N/Av

Exposure controls



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Ventilation and engineering measures

: Use 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.

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

: Chemical splash goggles must be worn when handling this material. 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 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 : Orange liquid.

Odour : Faint odour.

Odour threshold : N/Av

pH : 12-14

Melting Point/Freezing point : N/Av

Initial boiling point and boiling range

: 103°C / 217°F

Flash point : >93.3°C

Flashpoint (Method) : Tag closed cup

Evaporation rate (BuAe = 1) : N/Av

Flammability (solid, gas) : N/Av

Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : None known.

Explosive properties : N/Av

Vapour pressure : N/Av

Vapour density : N/Av

Relative density / Specific gravity

: 1.06-1.09

Solubility in water : Soluble

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



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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. Decomposition may occur at extremely high temperatures.
Conditions to avoid : Ensure adequate ventilation, especially in confined areas. Keep away from direct sunlight. Avoid contact with incompatible materials.
Incompatible materials : Strong acids, bases and oxidizing or reducing agents.
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 : NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing.

Sign and symptoms ingestion

: Ingestion may cause severe irritation to the mouth, throat and stomach. Symptoms include: Gastrointestinal discomfort, nausea, vomiting, cramping and diarrhea.

Sign and symptoms skin

: Causes severe burns. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring.

Sign and symptoms eyes

: Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage.

Potential Chronic Health Effects

: Prolonged exposure may cause chronic effects.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

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



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Reproductive effects & Teratogenicity

: Not expected to cause reproductive 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, digestive system.

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

Medical conditions aggravated by overexposure

: Pre-existing skin and respiratory disorders.

Synergistic materials

: None reported by the manufacturer.

Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. The calculated ATE values for this mixture are:
 ATE oral = 6329mg/kg

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Tetrasodium ethylenediamine tetraacetate	N/Av	1700 - 1913 mg/kg	N/Av
Sodium xylene sulphonate	> 6.41 mg/L (aerosol) (No mortality)	7200 mg/kg	> 2000 mg/kg (No mortality)
Sodium lauryl ether sulphate	N/Av	>2000mg/kg	> 2000 mg/kg
Sodium metasilicate pentahydrate	> 2.06 mg/L (mist) (No mortality) (anhydrous)	1152 - 1349 mg/kg (anhydrous)	> 5000 mg/kg (anhydrous)
sodium hydroxide	N/Av	N/Av	N/Av

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 #</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Tetrasodium ethylenediamine tetraacetate	64-02-8	792 mg/L (medium hard water) (Bluegill sunfish)	26.8mg/L (35 day) (Zebra fish) (Read-across)	None.
Sodium xylene sulphonate	1300-72-7	> 400 mg/L (Fathead minnow)	N/Av	None.
Sodium lauryl ether sulphate	68585-34-2	15 mg/L (Rainbow trout)	0.12mg/L 28-day (Rainbow trout) (Read-across)	None.
Sodium metasilicate pentahydrate	10213-79-3	260 - 310 mg/L (Rainbow trout)	N/Av	None.
sodium hydroxide	1310-73-2	125 mg/L (Mosquito fish)	N/Av	None.



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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Tetrasodium ethylenediamine tetraacetate	64-02-8	625 mg/L/24hr (Daphnia magna)	22 mg/L Daphnia magna (Water flea)	None.
Sodium xylene sulphonate	1300-72-7	> 408 mg/L (Daphnia magna)	N/Av	None.
Sodium lauryl ether sulphate	68585-34-2	18 mg/L (Daphnia magna)	0.72 mg/L (Daphnia magna) (Read-across)	None.
Sodium metasilicate pentahydrate	10213-79-3	1700 mg/L (Daphnia magna)	N/Av	None.
sodium hydroxide	1310-73-2	40.4 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Tetrasodium ethylenediamine tetraacetate	64-02-8	2.77mg/L/72hr (Green algae)	0.39mg/L/72hr	None.
Sodium xylene sulphonate	1300-72-7	230 mg/L/96hr (Green algae)	> 240 mg/L/96hr	None.
Sodium lauryl ether sulphate	68585-34-2	N/Av	0.35 mg/L/72hr (Green algae) (Read-across)	None.
Sodium metasilicate pentahydrate	10213-79-3	≥ 345 mg/L/72hr (Green algae)	N/Av	None.
sodium hydroxide	1310-73-2	N/Av	N/Av	None.

Persistence and degradability

: No data is available on the product itself. The following ingredients are considered to be readily biodegradable: Sodium xylenesulfonate, Sodium lauryl ether sulphate

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>
Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)	-13.17 (estimated)	Not expected to bioaccumulate
Sodium xylene sulphonate (CAS 1300-72-7)	- 3.12	0.500 (estimate)
Sodium lauryl ether sulphate (CAS 68585-34-2)	N/Av	Not expected to bioaccumulate
Sodium metasilicate pentahydrate (CAS 10213-79-3)	N/Av	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. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.



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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 of in accordance with federal, provincial and local hazardous waste laws.
- 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. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1760	CORROSIVE LIQUID, N.O.S. (Sodium hydroxide)	8	III	
49CFR/DOT Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				
TDG	UN1760	CORROSIVE LIQUID, N.O.S. (Sodium Hydroxide)	8	III	
TDG Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (Sodium Hydroxide)	8	III	
IMDG Additional information	Consult the IMDG regulations for exceptions.				
ICAO/IATA	UN1760	Corrosive liquid, n.o.s. (Sodium hydroxide)	8	III	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				

- Special precautions for user** : Appropriate advice on safety must accompany the package.
- 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
Tetrasodium ethylenediamine tetraacetate	64-02-8	Yes	N/Ap	N/Ap	No	N/Ap
Sodium xylene sulphonate	1300-72-7	Yes	N/Ap	N/Ap	No	N/Ap
Sodium lauryl ether sulphate	68585-34-2	Yes	N/Ap	N/Ap	No	N/Ap
Sodium metasilicate pentahydrate	10213-79-3	NL	N/Ap	N/Av	No	N/Ap
sodium hydroxide	1310-73-2	Yes	1000 lb/ 454 kg	N/Av	No	NS

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Skin corrosion ; Eye Damage . 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
Tetrasodium ethylenediamine tetraacetate	64-02-8	No	Not listed	No	No	No	No	No	No
Sodium xylene sulphonate	1300-72-7	No	Not listed	No	No	No	No	No	No
Sodium lauryl ether sulphate	68585-34-2	No	Not listed	No	No	No	No	No	No
Sodium metasilicate pentahydrate	10213-79-3	No	N/Ap	No	No	No	No	No	No
sodium hydroxide	1310-73-2	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). WHMIS Classification: See Section 2.

International Information:

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



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Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Tetrasodium ethylenediamine tetraacetate	64-02-8	200-573-9	Present	Present	(2)-1265	KE-13654	Present	HSR003275
Sodium xylene sulphonate	1300-72-7	215-090-9	Present	Present	(3)-1909	KE-11217	Present	HSR003382
Sodium lauryl ether sulphate	68585-34-2	N/Av	Present	Present	(7)-120; (7)-155	KE-32438	Present	HSR003213
Sodium metasilicate pentahydrate	10213-79-3	229-912-9 (anhydrous)	Present	Present	(1)-508	KE-12354	Present	HSR003419
sodium hydroxide	1310-73-2	215-185-5	Present	Present	(2)-1972; (1)-410	KE-31487	Present	HSR001547

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
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
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/Av: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NTP: National Toxicology Program
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



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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.
European Chemicals Agency, Classification Legislation
OECD - The Global Portal to Information on Chemical Substances - eChemPortal,

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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

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