Trade name: FS KW 1000 C-45

SECTION 1: Identification

Product identifier: **FS KW 1000 C-45.**
Synonyms: None available.
Product Code Number: FG01003-B.
SDS number: CGF013-B
Recommended use: Parts Cleaner.
Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:

Company Name: CGF Inc.
Company Address: 317 Peoples Ave
Rockford, IL 61104
Company Telephone: Office hours (Mon – Fri)
8.00am – 4:30pm (CST)
(815) 967-4400
Company Contact Name: Main Office.
Emergency phone number: CHEMTREC 24 HOUR EMERGENCY NUMBER:
(800) 424 9300.

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Physical hazards
Not classified as a physical hazard under GHS criteria

Health hazards
Skin irritation (Category 2), H315.
Eye irritation (Category 2A), H319.
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335.

Environmental hazards
Not classified as an environmental hazard under GHS criteria

GHS Signal word: **WARNING.**

GHS Hazard statement(s): Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

GHS Hazard symbol(s):

GHS Precautionary statement(s):

Prevention:	Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves / eye protection / face protection.
Response:	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see instructions on this label as required). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal:	Dispose of contents/containers to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Hazard(s) not otherwise Classified (HNOC): None known.

Percentage of ingredient(s) of unknown acute toxicity:
33% of the mixture consists of ingredients of unknown acute toxicity (oral/dermal/inhalation).

SECTION 3: Composition/information on ingredients

Mixture:

Chemical name	Concentration (weight %)	CAS#
Tetrapotassium Pyrophosphate	10 – 20%	7320-34-5
Potassium Hydroxide	4-8%	1310-58-3

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret due to the proprietary nature of one of the components.
Note: The balance of the ingredients are not classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4: First-aid Measures

Inhalation: If inhaled, move person into fresh air and avoid further inhalation. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Immediately flush with large amounts of water for 15 minutes. Wash contaminated clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion: If ingested, seek medical attention immediately.

Most important symptoms/effects, acute and delayed: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed: The hazards of this material are mainly due to its irritant properties on the skin and mucosal surfaces. There is no specific antidote and treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Not a fire hazard. Dry chemical, carbon dioxide, or water spray is recommended.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical:
Oxides of phosphorus, Potassium oxides, Carbon monoxide, Carbon dioxide.

Special protective equipment and precautions for fire-fighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing.

When the potential chemical hazard is unknown, in enclosed or confined spaces, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Stay upwind and away from spill/release. Avoid direct contact with liquid and vapors. For large spillages, notify persons downwind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Methods and material for containment and cleaning up: Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Sweep up spilled material. Flush residue into waste disposal system with large amounts of water. Neutralize large spill areas with dilute mineral acid before flushing into waste disposal system with water. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.
Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

SECTION 7: Handling and Storage

Precautions for safe handling: Use with adequate ventilation. Bring product to room temperature before use. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Do not breathe vapors or mists. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Conditions for safe storage, including any incompatibles: Keep container(s) tightly closed and properly labeled. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

"Empty" containers retain residue and may be dangerous. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 8: Exposure controls/personal protection

Control Parameters:

Occupational exposure limits:

US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits		
Substance	**PEL-TWA (8 hour)**	**PEL-STEL (15 min)**
Tetrapotassium Pyrophosphate	No data available	No data available
Potassium Hydroxide	(vacated) Ceiling: 2mg/ m^3	Not data available

US ACGIH Threshold Limit Values		
Substance	**TLV-TWA (8 hour)**	**TLV-STEL (15 min)**
Tetrapotassium Pyrophosphate	10 mg/m^3	No data available
Potassium Hydroxide	Ceiling: 2mg/ m^3	No data available

NIOSH Exposure Limits		
Substance	**TWA**	**STEL**
Tetrapotassium Pyrophosphate	No data available	No data available
Potassium Hydroxide	Ceiling: 2mg/ m^3	No data available

Appropriate engineering controls: General (mechanical) room ventilation is expected to be adequate. Special local ventilation is suggested at points where vapors can be expected to escape to the workplace air.

Individual protection measures, such as personal protective equipment:

Eye/face protection: The use of eye protection, such as Face shield or goggles, that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury.

Skin and Hand protection: The use of rubber gloves impervious to the specific material handled is advised to prevent skin contact. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: If excessive misting occurs, or if associated TLV is exceeded, provide NIOSH approved respiratory equipment with TC-21C-XXX cartridge combination.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health (IDLH).

Other: Eye wash and quick-drench shower facilities should be available in the work area. Chemical (rubber) aprons should be used.

Thermal hazards: No data available.

SECTION 9: Physical and chemical properties

Appearance	
Physical state:	Liquid
Form:	Liquid
Color:	Clear, Colorless
Odor:	Light, clean smell.
Odor threshold:	No data available
pH Dilution:	9.5-12.5 @ 20:1
PH Concentrate:	11.0-12.0
Melting point/freezing point:	No data available
Initial Boiling Point/Range:	No data available
Flash point:	None – contains water
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – lower %):	No data available
Flammability limit – upper (%):	No data available
Explosive limit – lower (%):	No data available
Explosive limit – upper (%):	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Specific gravity:	1.10
Solubility in water:	Missible.
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Other information:	
% Volatile by volume:	Not established
Pour Point:	No data available

SECTION 10: Stability and Reactivity

Reactivity: Not chemically reactive.
Chemical stability: Stable under normal ambient and anticipated conditions of use.
Possibility of hazardous reactions: Hazardous reactions not anticipated.
Conditions to avoid: No data available.
Incompatible materials: Avoid contamination with strong mineral acids.
Hazardous decomposition products: Burning can produce oxides of phosphorus, potassium oxides, carbon monoxide and/or carbon dioxide.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: Inhalation of high concentrations of mists may produce respiratory tract irritation. Ulceration of respirator membranes may occur from prolonged irritation.
Ingestion: Irritation of the mouth and gastrointestinal tract will occur immediately. Permanent damage will occur if medical attention is not obtained promptly.
Skin: May be slightly irritating to the skin.
Eyes: May cause eye irritation. If not promptly treated, extensive eye damage will occur.

Symptoms related to the physical, chemical, and toxicological characteristics:
None known.

Delayed and immediate effects and chronic effects from short or long-term exposure:
None known.

Acute toxicity:

Ingredient Information:

Substance	Test Type (species)	Value
Tetrapotassium Pyrophosphate	LD_{50} Oral (Rat) LD_{50} Oral (Mouse)	No data available
	LD_{50} Dermal (Rabbit)	> 4640 mg/kg
	LC_{50} Inhalation (Mouse)	No data available

Product Acute Toxicity Estimates:

Acute Oral Toxicity – no data available
Acute Dermal Toxicity - no data available
Acute Inhalation Toxicity - no data available

Skin corrosion/irritation:	May be slightly irritating to the skin.
Serious eye damage/eye irritation:	May cause eye irritation. If not promptly treated, extensive eye damage will occur.
Respiratory sensitization:	No information available on the mixture, however none of the components have been classified for respiratory sensitization.
Skin sensitization:	No information available on the mixture, however none of the components have been classified for skin sensitization.
Germ cell mutagenicity:	No information available on the mixture, however none of the components have been classified for Germ cell mutagenicity (or are below the concentration threshold for classification).
Carcinogenicity:	No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).
Reproductive toxicity:	No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).
Specific target organ toxicity-Single exposure:	No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification).
Specific target organ toxicity-Repeat exposure:	No information available on the mixture, however one of the components has been classified for respiratory tract irritation.
Aspiration hazard:	No information available on the mixture, however none of the components have been classified for Aspiration hazard (or are below the concentration threshold for classification).
Further information:	No data available.

SECTION 12: Ecological information

Ecotoxicity:

Product data: No data available

Ingredient Information:

Substance	Test Type	Species	Value
Tetrapotassium Pyrophosphate	LC_{50}	Fish	No data available
	LC_{50}	Invertebrate Dreissena polymorpha (Zebra mussel)	94 mg/L (48h)
	EC_{50}	Algae	No data available

Toxicity: No data available.
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
Other adverse effects: None anticipated.

SECTION 13: Disposal considerations

Disposal instructions:
Non-biodegradable contaminants introduced into used emulsions must be removed prior to disposal. Acid-alum or alum-polymeric de-emulsifiers may be used.
The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.
See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

SECTION 14: Transport Information

U.S. Department of Transportation (DOT)

Shipping Description:	Not regulated
Note:	U.S. DOT compliance requirements may apply. See 49 CFR 171.22, & 23.

International Maritime Dangerous Goods (IMDG)

Shipping Description:	Not regulated
Note:	U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable.

International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID #:	Not regulated
Note:	U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 24.

SECTION 15: Regulatory Information

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

Toxic Substances Control Act (TSCA) – All substances in this product are listed, as required, on the TSCA inventory.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:
Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substance List, 40 CFR 302.4: This product contains chemicals listed on CERCLA. None

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

SARA Title III
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370):
Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: No
Pressure Hazard: No
Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372):
None

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986: No components are listed on Prop 65.

Massachusetts Right to Know: Potassium Hydroxide is listed on the Massachusetts Right to Know List.

Minnesota Hazardous Substance List: None of the components are listed on the Minnesota Hazardous Substance List.

New Jersey Right to Know: Tetrapotassium pyrophosphate and Potassium Hydroxide are listed on the New Jersey Right to Know list.

Pennsylvania Right to Know: Tetrapotassium pyrophosphate and Potassium Hydroxide are listed on the Pennsylvania Right to Know List.

Rhode Island Hazardous Substance List: None of the components are listed on the Rhode Island Hazardous Substance List.

Canada WHMIS Hazard Class: D2B - Toxic materials.

SECTION 16: Other Information

Revision Date: March 23, 2015

To the best of our knowledge, the information contained herein is accurate. However CGF INC does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.