



KMI GLOBAL

D-8000



Mmm
CONSULTING GROUP *Specializing in FDA Regulatory Matters*

June 10, 2019

Zach Lafler
KMI Cleaning Solutions, Inc.
157 Beadle Lake Road
Battle Creek, MI 49014

Dear Mr. Lafler:

This is in response to your request for a regulatory opinion on the ingredients in your proprietary cleaning products, identified as "Alligator-FG" and "D-8000." The results of our findings are listed in the attached table. Based on our review, we conclude that all the ingredients are regulated and can be used in your cleaning products.

The use of the ingredients in your product are predicated on being used consistent with current Good Manufacturing Practices which may require following with a potable water rinse, if applicable.

We trust that this information is satisfactory and helpful to your goals. Please let us know if you have questions.

Thank you for the opportunity to be of service to your company.

Sincerely,

Chairman & CEO

ATTACHMENT

EAS Consulting Group, LLC
1700 Diagonal Road, Suite 750, Alexandria, Virginia 22314
(877) 327-9808 Toll Free • (571) 447-5500 Local • (703) 548-3270 Fax

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157 Beadle Lake Road
Battle Creek, MI 49014
1-800-772-4616

Date of Issue: 1/30/2019
Date of Revision: 6/21/2022

Letter of Guarantee

Product Name: D-8000
Product Item Code: 252D8

KMI Cleaning Solutions, Inc. hereby guarantees that D-8000 is safe and effective under the intended conditions of use as outlined in the product use instructions in accordance with FDA, Code of Federal Regulations, Title 21 and USDA/FSIS Sanitation Performance Standards Compliance §416.4(a), A-1 Guidelines where applicable. This product will not adulterate food products if it is used according to product use instructions.

Appropriate safety precautions must be used in compliance with plant safety procedures and standards while handling and using this product. D-8000 is intended for use as a general cleaning compound on all surfaces with mechanical or steam cleaning devices.

Use Instructions: Cold Pipelines- Use 9- 10 pounds of D-8000 per 100 gallons of water at 150°-160°F for 15-20 minutes. Hot Circuit Cleaning, Cleaning of Hot Lines, Pasteurizers and Heat Exchange Surfaces- Requires concentration ranging from 20-40 pounds of D-8000 for each 100 gallons of water at 160°- 190°F. Cleaning temperatures should exceed process temperatures by at least 5 to 10 degrees for best results. For circulation cleaning of milk lines use 1 to 3 oz. per gallon of hot water (145° to 155°F). After cleaning cycle, triple rinse thoroughly with potable water at 180°-200°F before sanitizing and using equipment.

When used in processing areas, food products and packaging materials must be removed from the room or carefully protected. After using D-8000, all surfaces must be thoroughly rinsed with potable water.

Sincerely,

Zach Lafler

Director of Business Development

KMI Cleaning Solutions, Inc.

269-964-2257 or (800) 772-4616

zlafler@kmicleaningsolutions.com

Revised: 06/21/2022



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Product Usage Instructions

D-8000 Features and Benefits:

- Low Foaming: Aids in automatic and manual CIP cleaning.
- Strong: Penetrates soils thoroughly and quickly. Saponifies fats, greases, and oils cooked onto surfaces for easy rinsing.
- Free Rinsing: Rinses loosened soils easily and quickly from contact surfaces.

Recommended Uses:

Alkaline cleaning cycle of hot and cold CIP pipelines, HTST units, evaporators, brew kettles, kegs, cookers, fryers, blanchers, fillers, and general food processing equipment.

Use Instructions:

Cold pipelines: Use 9-10 lbs of D-8000 per 100 gallons of water at 150°-160°F for 15-20 minutes.

Hot Circuit Cleaning, Cleaning of Hot Lines, Pasteurizers, and Heat Exchange Surfaces:

Requires concentration ranging from 20-40 lbs of D-8000 for each 100 gallons of water at 160°-190°F. Cleaning temperatures should exceed process temperatures by at least 5°-10°F for best results. For circulation cleaning of milk lines use 1-3 oz. per gallon of hot water (at 145°-155°F).

Note: After cleaning cycle, triple rinse thoroughly with potable water at 180°-200°F before sanitizing and using equipment.

Government Regulations:

Manufactured in accordance with Code of Federal Regulations, title 21 and FDA/USDA guidelines.

Revised: 06/23/2022



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Standard Operating Procedure **D-8000 Powder Detergent**

The following is recommended for monitoring and maintaining your cleaning system.

Detergent Vat: Utilizing D-8000 Powder Detergent

Hot Circulation Cleaning: Requires concentration ranging from 20-40 lbs of D-8000 for each 100 gallons of water at 160°-190°F.

Vat Build: Recommended dosage of 3-5% when utilizing D-8000. See examples below

Examples: Based on approx. 30 lbs of product per 100 gallons of water.

- 1000 gallon Vat Dosage: 300 lbs of product
- 800 gallon Vat Dosage: 240 lbs of product
- 500 gallon Vat Dosage: 150 lbs of product

Note: Each 5 gl pail of D-8000 weighs approx. 50 lbs.

Monitoring Method: Utilizing a Detergent Titration Kit, Target # 3100-4340 PPM. See chart below, carefully read all instructions provided with kit prior to testing.

Number of Drops	PPM Value	Number of Drops	PPM Value	Number of Drops	PPM value	Number of Drops	PPM value	Number of Drops	PPM Value
1	310	10	3100	22	6820	32	9920	42	13020
2	620	14	4340	24	7440	34	10540	44	13640
4	1240	16	4960	26	8086	36	11160	46	14260
6	1860	18	5580	28	8680	38	11780	48	14880
8	2480	20	6200	30	9300	40	12400	50	15500

It is recommended that titration of your cleaning system be performed at the beginning of each shift. These results should be recorded on the daily shift report along with vat temperature and cleaning results. This is the best way to ensure your cleaning system is being monitored and properly maintained. When your system reads below 1240 PPM then operator knows it is time to boost the Vat. **Recommended dosage when boosting is ½ the initial vat dosage.** It is not recommended to boost same Vat more than twice before dropping and rebuilding with fresh product.

Example: An Initial Vat Dosage of 50 gallons = Vat Boost 25 gallons

Government Regulations:

Manufactured in accordance with Code of Federal Regulations, Title 21 and FDA/USDA guidelines.

Revised: 06/23/2022

Issue Date: 01-Feb-2012

Revision Date: 03-Jan-2024

Version 1

1. IDENTIFICATION

Product Identifier

Product Name D-8000

Other means of identificationProduct Code 252D8
UN/ID No UN3262**Recommended use of the chemical and restrictions on use**

Recommended Use Spray wash cleaner.

Details of the supplier of the safety data sheet**Supplier Address**KMI GLOBAL
157 BEADLE LAKE RD
BATTLE CREEK, MI 49014**Emergency Telephone Number**Company Phone Number Phone: 269-964-2557
Fax: 269-964-7108
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Off-white powder

Physical State Powder

Odor Mild

Classification

Skin irritation	Category 2
Eye irritation	Category 2

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

Signal Word

Warning

Hazard StatementsCauses serious eye irritation.
Causes skin irritation.
Harmful if swallowed.
May cause respiratory irritation.

Precautionary Statements - Prevention

Wear protective gloves, protective clothing, eye and face protection.

Do not get in eyes, on skin, or on clothing.

Do not breathe dust.

Wash skin and contaminated clothing thoroughly after handling.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contaminated clothing before reuse.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Precautionary Statements - Storage

Store in a secure manner. Keep container closed. Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium Carbonate	497-19-8	<40
Trisodium Phosphate-Dodecahydrate	10101-89-0	<15
Sodium Metasilicate	6834-92-0	<50
Ethylene Glycol Mono Butyl Ether	111-76-2	2

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures**Eye Contact**

IF IN EYES: Immediately flush eyes with plenty of water occasionally lifting the upper and lower eyelids. After 15 minutes, check for and remove any contact lenses. Continue to rinse for at least 15 minutes and get medical attention.

Skin Contact

IF ON SKIN (or hair): Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation or burn occurs get medical attention.

Inhalation

Remove from exposure and move to fresh air immediately and keep in a position comfortable for breathing. Give artificial respiration if necessary.

Ingestion

If victim is conscious and alert, wash out mouth with water. Never give anything by mouth to an unconscious. Consult a physician or medical facility with regard to inducing vomiting.

Most important symptoms and effects**Symptoms**

Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use agent suitable for type of surrounding fire.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined

Hazardous Combustion Products None known.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus with full face piece operated in positive pressure demand mode when fighting fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes, and clothing.

Environmental Precautions Prevent entry into sewers, water courses, basements or confined areas.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Sweep up and shovel material into suitable container. Dispose of properly. Flush spill area with water if appropriate, and clean this up with floor absorbent.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Avoid contact with skin, eyes, and clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Keep in original container. Do not reuse container. Use appropriate personal protective equipment (see section 8).

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in accordance with local regulations. Store in segregated and approved area. Keep container closed and store at moderate temperature in a well ventilated area, away from incompatible materials.

Incompatible Materials Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Carbonate 497-19-8	N/A	-	-
Trisodium Phosphate- Dodecahydrate 10101-89-0	TWA: 5 mg/m3	-	-
Sodium Metasilicate 6834-92-0	TWA: 2 mg/m3	-	-
Ethylene Glycol Mono Butyl Ether 111-76-2	TWA: 20 ppm	-	-

Appropriate engineering controls

Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local ventilation to keep airborne levels of vapor or mist to acceptable levels.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear approved safety glasses or chemical splash goggles. Use a face shield when appropriate.

Skin and Body Protection

Wear chemical resistant protective gloves. Wear appropriate protective clothing to prevent skin exposure.

Respiratory Protection

NIOSH approved respirator for dust.

General Hygiene Considerations Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Do not ingest.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Powder	Odor	Mild
Appearance	Off-white powder	Odor Threshold	Not determined
Color	Off-white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	N/A	
Melting Point/Freezing Point	N/A	
Boiling Point/Boiling Range	N/A	
Flash Point	N/A	
Evaporation Rate	N/A	(Water = 1)
Flammability (Solid, Gas)	N/A	
Upper Flammability Limits	N/A	
Lower Flammability Limit	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Specific Gravity	N/A	
Water Solubility	Complete	
Solubility in other solvents	N/A	
Partition Coefficient	N/A	
Auto-ignition Temperature	N/A	
Decomposition Temperature	N/A	
Kinematic Viscosity	N/A	
Dynamic Viscosity	N/A	
Explosive Properties	N/A	
Oxidizing Properties	N/A	

10. STABILITY AND REACTIVITY

Reactivity

Stable at normal temperatures and pressures.

Chemical Stability

Stable at normal temperatures and pressures.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

See Sec. 7 Handling & Storage.

Incompatible Materials

Acids.

Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information****Eye Contact**

May cause severe irritation to eyes.

Skin Contact

May cause severe irritation to skin.

Inhalation

May cause severe irritation to respiratory tract.

Ingestion

May cause severe irritation to throat and gastrointestinal system.

Component Information

Not determined.

Information on physical, chemical and toxicological effects**Symptoms**

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Carcinogenicity**

Not classifiable as a human carcinogen.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available.

Component Information

No data available.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

No determined.

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Dispose of in accordance with all federal, state, and local regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN3262
Proper Shipping Name Corrosive Solid, Basic, Inorganic, N.O.S. (Disodium trioxosilicate)
Hazard Class 8
Packing Group II

IATA

UN/ID No UN3262
Proper Shipping Name Corrosive Solid, Basic, Inorganic, N.O.S. (Disodium trioxosilicate)
Hazard Class 8
Packing Group II

IMDG

UN/ID No UN3262
Proper Shipping Name Corrosive Solid, Basic, Inorganic, N.O.S. (Disodium trioxosilicate)
Hazard Class 8
Packing Group II

15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene Glycol Monobutyl Ether - 111-76-2	111-76-2	2	1.0

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

No data available.

16. OTHER INFORMATION

NFPA

Health Hazards
Not determined

Flammability
Not determined

Instability
Not determined

Special Hazards
Not determined

HMIS

Health Hazards
2

Flammability
0

Physical Hazards
0

Personal Protection
B

Issue Date: 01-Feb-2012
Revision Date: 03-Jan-2024
Revision Note: New logo

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



ועד הרבנים דעטראיט
Council of Orthodox Rabbis of Greater Detroit

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Rabbi Yisroel M. Levin
Rabbi Yechiel Morris
Rabbi Elimelech Silberberg
Presidium

December 15, 2023

To Whom It May Concern:

Rabbi Moshe Wainkrantz
Director

The following cleaning products, manufactured by **KMI Cleaning Solutions**, 157 Beadle Lake Road, Battle Creek, MI 49014, and by **Arrow Chemical Products Inc.**, 2067 Saint Ann Street, Detroit, MI 48216, which are going to be used at Kosher tank wash facilities throughout the country, are certified Kosher and Pareve, and are under the supervision of the Council of Orthodox Rabbis of Greater Detroit. Both plants have been visited by our Kashruth administrator, Rabbi Krupnik, and will continue to be inspected throughout the year.

Rabbi Beryl Broyde
Rabbi Yosef Krupnik
K-COR – Kashrus Division

- **Kleen Strip Powder**
- **D-8000 Powdered Detergent**
- **Breakaway Detergent**
- **191 Performance**
- **TW-22**
- **Work Horse**
- **Citra Clean**
- **Alligator**
- **X-20**
- **Swish**
- **Orange Gator**
- **Sudz**
- **Passivator**
- **Citric Passivator**
- **Metal Prep**

The products are a family of detergents based on Kosher Pareve approved acids (sulfuric acid, phosphoric acid, etc.) and other chemicals approved as Kosher and Pareve.

This certificate is valid through December 31, 2024.

Sincerely,

Rabbi Moshe Wainkrantz
Director, Council of Orthodox Rabbis of Greater Detroit

