



**KMI
GLOBAL**

191 Performance



June 22, 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 "191 Performance & "Eco-Green 54-FG." Based on our understanding of the intended use of your product, we conclude that all the ingredients are regulated and can be used in your cleaning product.

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



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

Date of Issue: 1/30/2019
Date of Revision: 08/01/2023

Letter of Guarantee

Product Name: 191 PERFORMANCE

Product Item Code: KP191

KMI Cleaning Solutions, Inc. hereby guarantees that 191 Performance 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. 191 Performance is intended for use as a general cleaning compound on all surfaces with mechanical or steam cleaning devices.

Use Instructions: Cold Pipelines- Use 3-4 quarts of 191 Performance 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 8-16 quarts of 191 Performance 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°-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 191 Performance, 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: 08/01/2023



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

PRODUCT BULLETIN

***Alkaline Concentrate
 Internal Tank Wash
 Cleaner & Degreaser***

191 Performance

Conforms to USDA/FSIS Sanitation Performance Standards Compliance §416.4(a), A-1 and A-8 Guidelines.

PRODUCT DESCRIPTION

- 191 Performance is a highly concentrated alkaline blend containing potassium hydroxide
- Cleaning performance enhanced by a blend of chelating and water conditioning agents
- Specifically designed for use in high- and low-pressure CIP cleaning systems
- Can be used on a wide range of soil types and is safe on aluminum or other soft metals
- Optimum operating temperature range is 140°-210°F

FEATURES AND BENEFITS

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

TYPICAL SPECIFICATIONS

Appearance.....	Clear Liquid
Color.....	Clear, Water White
Odor.....	Typical Detergent
Solubility.....	Complete in water
pH Neat.....	>12.5
Specific Gravity.....	1.07
Foaming.....	Low Foaming
Flash Point.....	>212F

DILUTION

- Minimum 600ppm to Maximum 2480ppm
- Minimum < 10pH to Maximum > 12.5pH in water
- Test Method, pH Tests Strips, KMI Part #TW026
- Conductivity Range: Minimum 1.60mS to Maximum 8.70mS
- Test Method, "Titration w/ Reagents" KMI part #203DTK

SAFETY

- Keep out of reach of children.
- Read label instructions and SDS carefully
- SDS available with delivery or upon request

Government Regulations:

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

Revised 08/01/2023



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

Product Usage Instructions

191 Performance

191 Performance 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 3-4 quarts of 191 Performance 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 9-18 quarts of 191 Performance 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: 08/01/2023

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a poison center or doctor/physician
 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 center or doctor/physician
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a poison center or doctor/physician
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium metasilicate	6834-92-0	5-15
Ethylene Glycol Monobutyl Ether	111-76-2	5-10
Sodium Tripolyphosphate	7758-29-4	<5
Potassium Hydroxide	1310-58-3	<5
Ethylenediamineteraacetic Acid	6381-92-6	<5
Trisodium Phosphate	7601-54-9	<5

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: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	IF SWALLOWED: call a poison control center or physician immediately. Rinse mouth. Do not induce vomiting.

Most important symptoms and effects

Symptoms	Causes severe skin burns and eye damage. May cause pain, conjunctivitis of the eyes or burns. Ingestion may cause severe burns to mouth, throat or stomach. Inhalation may cause burns to upper respiratory tract and lung tissue depending on length of exposure.
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Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.**Specific Hazards Arising from the Chemical**

Product is not flammable.

Hazardous Combustion Products None known.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Use personal protective equipment as required.

Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

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

Confine and absorb into approved absorbent. Place material into approved containers for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Do not breathe vapors. Wash face, hands and any exposed skin thoroughly after handling. Product should only be handled by trained personnel. For institutional and industrial use only.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep away from children and untrained personnel. Store locked up.

Incompatible Materials

Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium metasilicate 6834-92-0	2 mg/m ³	2 mg/m ³	-
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses as a minimum for protection.

Skin and Body Protection Wear suitable protective clothing. Wear waterproof gloves.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Butyl odor
Appearance	Clear liquid	Odor Threshold	Not determined
Color	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	12.5	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	> 100 °C / >212 °F	
Flash Point	Not flammable	
Evaporation Rate	<1	(Water = 1)
Flammability (Solid, Gas)	Liquid - not applicable	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	>1	
Specific Gravity	1.07	
Water Solubility	100% soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	

Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

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

Strong acids.

Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium metasilicate 6834-92-0	= 600 mg/kg (Rat)	-	-
Ethylene Glycol Monobutyl Ether 111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat) = 220 mg/kg (Rabbit)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Sodium xylenesulfonate 1300-72-7	= 1000 mg/kg (Rat)	-	-

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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Monobutyl Ether 111-76-2	A3	Group 3		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium metasilicate 6834-92-0		210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50		216: 96 h Daphnia magna mg/L EC50
Ethylene Glycol Monobutyl Ether 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethylene Glycol Monobutyl Ether 111-76-2	0.81

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and 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	NA1760
Proper Shipping Name	Compounds, cleaning liquid (Potassium Hydroxide, Disodium trioxosilicate), 8, II
Hazard Class	8
Packing Group	II

IATA

UN/ID No	NA1760
Proper Shipping Name	Compounds, cleaning liquid (Potassium Hydroxide, Disodium trioxosilicate), 8, II
Hazard Class	8
Packing Group	II

IMDG

UN/ID No	NA1760
Proper Shipping Name	Compounds, cleaning liquid (Potassium Hydroxide, Disodium trioxosilicate), 8, II
Hazard Class	8
Packing Group	II

15. REGULATORY INFORMATION**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium metasilicate	Present	X		Present		Present	X	Present	X	X
Ethylene Glycol Monobutyl Ether	Present	X		Present		Present	X	Present	X	X
Sodium Tripolyphosphate	Present	X		Present		Present	X	Present	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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	5-10	1.0

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol Monobutyl Ether 111-76-2	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	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

18877 West 10 Mile Road #101 Southfield, MI 48075
Phone: (248) 559 – 5005 Fax: (248) 559 – 5202 cor@cordetroit.com www.cordetroit.com

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 Brody
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

