NATIONAL CHEMICAL LABORATORIES, INC.

World Class Cleaning & Hygiene Solutions™

SAFETY DATA SHEET

Section 1 - Identification

Product Identifier	KITCHEN MATE Professional Oven & Grille Cleaner
Other means of identification	2005
Recommended use	Aerosol cleaner.
Recommended restrictions	For commercial and industrial use only.

Manufacturer / Importer / Supplier / Distributor Information

Company Name	National Chemical Laboratories of PA, Inc.
Address	401 N. 10th Street - Philadelphia, PA 19123
Telephone	1 (215) 922-1200
Supplier Email	info@nclonline.com
Contact	CHEM-TEL
Emergency Phone	1 (800) 255-3924

Section 2 - Hazard(s) Identification

	Classification	Category
Physical Hazards	Flammable Aerosols	2
	Gases Under Pressure, Compressed Gas	
Health Hazards	Acute toxicity, dermal	4
	Acute toxicity, inhalation	4
	Acute toxicity, oral	4
	Skin corrosion/irritation	1A

OSHA defined hazards Not Classified.

Label Elements

Hazard Symbol

Signal Word Danger

Hazard Statement Flammable aerosol. Contains gas under pressure; may explode if heated. harmful if swallowed. Harmful if inhaled. Harmful if in contact with skin. Causes severe skin burns and eye damage.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. No smoking. Read label before use. Avoid breathing mist or vapor. Wear eye/face protection. Wash thoroughly after handling. Keep out of reach of children.

Response IF SWALLOWED: 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. If eye irritation persists: Get medical advice/attention.

Storage Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Store in a well-ventilated place.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

Section 3 - Composition/Information on ingredients

Mixture

Hazardous Components

Ingredient Name	CAS #	%
Liquified Petroleum Gas	68476-86-8	20 - 30
Potassium Hydroxide	1310-58-3	5 - 10
2-Amino Ethanol	141-43-5	1 - 5
Diethylene Glycol Monoethyl Ether	111-90-0	1 - 5

Section 4 - First-aid Measures

Inhalation	Move to fresh air and keep at rest. Call a physician if symptoms develop and persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Do not induce vomiting without advice from poison control center.

Most Important symptoms or effects, acute and delayed

Eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General Information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 - Fire-fighting measures

Suitable extinguishing media Water fog. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical Contents under pressure. Containers may explode when heated.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment /instructions In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific Methods Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering
them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into water ways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling HARMFUL IF INHALED OR SWALLOWED. VAPOR HARMFUL. EYE, SKIN AND RESPIRATORY IRRITANT.Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Keep out of reach of children. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.
Contents under pressure. Do not expose to heat or store at temperatures above 122°F/50°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 - Exposure control/personal protection

Occupational exposure limits

US. Workplace environmental Exposure Level (WEEL) Guides

Component	Type	Value
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	TWA	140 mg/m³ , 25 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
2-Amino Ethanol (CAS 141-43-5)	TWA	6 mg/m³ , 3 ppm	
Liquified Petroleum Gas (CAS 68476-86-8)	TWA	1000 ppm	Mist

US. ACGIH Threshold Limit Values

Component	Type	Value	Form
Liquified Petroleum Gas (CAS 68476-86-8)	TLV	1000 ppm	Mist
2-Amino Ethanol (CAS 141-43-5)	STEL	6 ppm	
2-Amino Ethanol (CAS 141-43-5)	TWA	3 ppm	

Potassium Hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Amino Ethanol (CAS 141-43-5)	STEL	15 mg/m³, 6 ppm
2-Amino Ethanol (CAS 141-43-5)	TWA	8 mg/m³ , 3 ppm
Potassium Hydroxide (CAS 1310-58-3)	REL	2 mg/m³

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Use personal protective equipment as required. Keep working clothes separately.

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other Wear suitable protective clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and chemical properties

Appearance

Physical state Gas/Liquid mixture.

Form Aerosol. Liquefied gas. Opaque foamy liquid.

Color Tan.

Odor Blend.

Odor threshold Not available.

pH 13

Melting point/freezing point Not available.

Initial boinging point and boiling range Not available.

Flash point -156.0 °F (-104.4 °C) Propellant estimated

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) 1.9% estimated

Explosive limit - upper (%) 9.5% estimated

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.054 ± 0.01 (liquid)

Relative density temperature 75 °F (23.9 °C)

Solubilities (water) Soluable (liquid)

Partition Coefficient n-octanol/water Not available

Auto-ignition temperature Not Available

Decomposition temperature Not Available

Other Information

VOC's 10.78 %

Pressure 68-80 psig @ 70F

Section 10 - Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possiblity of hazardous reactions Hazardous polymerization does not occur.

Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	No hazardous decomposition products are known.

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	May cause respiratory tract irritation. This product may be aspirated onto the lungs and cause chemical pneumonitis.
Skin contact	Causes skin irritation. May cause sensitization by skin contact. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact	Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Eye irritation. Symptoms may include discomfort or pain,excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Information on toxicological effects.

Acute toxicity May be harmful if swallowed.

Components	Level	Type	Code	Species	Results
2-Amino Ethanol (CAS 141-43-5)	Acute	Dermal	LD50	Rabbit	1025 mg/kg
	Acute	Oral	LD50	Rat	1715 mg/kg
Potassium Hydroxide (CAS 1310-58-3)	Acute	Oral	LD50	Rat	273 mg/kg

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/ eye irritation	Causes eye irritation.
Respiratory sensitization	This product is not expected to cause respiratory sensitization.
Skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not likely, due to the form of the product.
Chronic effects	Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

Section 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.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.

Partition coefficient n-octanol / water log (Kow)

Components	Results
2-Amino Ethanol (CAS 141-43-5)	-1.31
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	-0.54

Mobility in soil	No data available.
Mobility in general	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13 - Disposal considerations

Disposal instructions	Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers

may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

Section 14 - Transport information

DOT

UN number	UN1950
Proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Packing group	Not Applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Labels required	None/Ninguno
Special provisions	N82
Packaging exemption	306
Packaging non bulk	None/Ninguno
Packaging bulk	None/Ninguno

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Packaging group	Not Applicable.
Environmental hazards	No
Labels required	2.1
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other Information	
Passenger and Cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
Packaging Exceptions	LTD QTY

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packaging group	Not Applicable.
Environmental hazards	No
Marine pollutant	
Labels required	None
EmS	F-D, S-U
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY

Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code	Not applicable.
General Information	IMDG Regulated Marine Pollutant

Section 15 - Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D) Not regulated.

Components	% by Weight	Comment
Liquified Petroleum Gas (CAS 68476-86-8)	20 - 30	

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed

Component	Result	Comment
Liquified Petroleum Gas (CAS 68476-86-8)		

CERCLA Hazardous Substance List (40 CFR 302.4

Components	Result
Potassium Hydroxide (CAS 1310-58-3)	LISTED
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard	No
	Delayed Hazard	No
	Fire Hazard	Yes
	Pressure Hazard	Yes
	Reactivity Hazard	No
SARA 302 Extremely hazardous substance		Not regulated.
SARA 311/312 Hazardous chemical		No

SARA 313 (TRI reporting)

Chemical name	CAS #	% by wt.
Diethylene Glycol Monoethyl Ether	111-90-0	1 - 5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Components

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Diethylene glycol monoethyl ether (CAS 111-90-0)

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

US.Massachusetts RTK - Substance List

Components

Potassium Hydroxide (CAS 1310-58-3)

2-Amino Ethanol (CAS 141-43-5)

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

US.New Jersey Worker and Community Right-to-Know Act

Components

2-Amino Ethanol (CAS 141-43-5)

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

US.Pennsylvania RTK - Hazardous Substances

Components

Potassium Hydroxide (CAS 1310-58-3)

2-Amino Ethanol (CAS 141-43-5)

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

US.Rhode Island RTK

Components

Potassium Hydroxide (CAS 1310-58-3)

2-Amino Ethanol (CAS 141-43-5)

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

US - California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to expose you to any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	**Australian Inventory of Chemical Substances (AICS)**	No
Canada	**Domestic Substances List (DSL)**	Yes
Canada	**Non-Domestic Substances List (NDSL)**	No
China	**Inventory of Existing Chemical Substances in China (IECSC)**	Yes
Europe	**European Inventory of Existing Commercial Chemical Substances (EINECS)**	No
Europe	**European List of Notifed Chemical Substances (ELINCS)**	No
Japan	**Inventory of Existing and New Chemical Substances (ENCS)**	No
Korea	**Existing Chemicals List (ECL)**	No
New Zealand	**New Zealand Inventory**	No
Philippines	**Philippine Inventory of Chemicals and Chemical Substances**	No
Unites States Puerto Rico	**Toxic Substances Control Act (TSCA) Inventory**	Yes

***A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).**

***A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).**

Section 16 - Other information, including date of preparation or last version

Revision date	6/1/2023
Version #	02
HMIS Hazard Codes	PPE A

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