


**SAFETY DATA SHEET**

**Section 1 - Identification**

<b>Product Identifier</b>	KITCHEN MATE Professional Oven & Grille Cleaner
<b>Other means of identification</b>	2005
<b>Recommended use</b>	Aerosol cleaner.
<b>Recommended restrictions</b>	For commercial and industrial use only.
<b>Manufacturer / Importer / Supplier / Distributor Information</b>	
<b>Company Name</b>	National Chemical Laboratories of PA, Inc.
<b>Address</b>	401 N. 10th Street - Philadelphia, PA 19123
<b>Telephone</b>	1 (215) 922-1200
<b>Supplier Email</b>	info@nclonline.com
<b>Contact</b>	CHEM-TEL
<b>Emergency Phone</b>	1 (800) 255-3924

**Section 2 - Hazard(s) Identification**

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

	<b>Classification</b>	<b>Category</b>
<b>Physical Hazards</b>	Flammable Aerosols	2
	Gases Under Pressure, Compressed Gas	
<b>Health Hazards</b>	Acute toxicity, dermal	4
	Acute toxicity, inhalation	4
	Acute toxicity, oral	4
	Skin corrosion/irritation	1A
<b>OSHA defined hazards</b>	Not Classified.	
<b>Label Elements</b>		
<b>Hazard Symbol</b>		
<b>Signal Word</b>	Danger	
<b>Hazard Statement</b>	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.	
<b>Precautionary statement</b>		
<b>Prevention</b>	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.	
<b>Response</b>	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.	
<b>Storage</b>	Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Store in a well-ventilated place.	
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.	
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.	

**Section 3 - Composition/Information on ingredients**

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

**Section 4 - First-aid Measures**

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

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<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without advice from poison control center.
<b>Most Important symptoms /effects, acute and delayed</b>	Eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction.
<b>Indication of immediate medical attention and special treatment</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General Information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## Section 5 - Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Containers may explode when heated.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment /instructions</b>	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.
<b>Specific Methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## Section 6 - Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures.</b>	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.
<b>Methods and materials for containment and cleaning up</b>	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.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## Section 7 - Handling and storage

<b>Precautions for safe handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	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/m <sup>3</sup> , 25 ppm

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

Components	Type	Value
2-Amino Ethanol (CAS 141-43-5)	TWA	6 mg/m <sup>3</sup> , 3 ppm
Liquified Petroleum Gas (CAS 68476-86-8)	TWA	1000 ppm

#### US. ACGIH Threshold Limit Values

Component	Type	Value
Liquified Petroleum Gas (CAS 68476-86-8)	TLV	1000 ppm
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/m <sup>3</sup>

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Amino Ethanol (CAS 141-43-5)	STEL	15 mg/m <sup>3</sup> 6 ppm

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2-Amino Ethanol (CAS 141-43-5)	TWA	8 mg/m <sup>3</sup> , 3 ppm
Potassium Hydroxide (CAS 1310-58-3)	REL	2 mg/m <sup>3</sup>
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).	
<b>Exposure guidelines</b>	Use personal protective equipment as required. Keep working clothes separately.	
<b>Appropriate engineering controls</b>	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.	
<b>Individual protection measures, such as personal protective equipment</b>		
<b>Eye/face protection</b>	If contact is likely, safety glasses with side shields are recommended.	
<b>Skin protection</b>		
<b>Hand protection</b>	For prolonged or repeated skin contact use suitable protective gloves.	
<b>Other</b>	Wear suitable protective clothing.	
<b>Respiratory protection</b>	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.	
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.	
<b>General hygiene considerations</b>	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

<b>Appearance</b>	
<b>Physical state</b>	Gas/Liquid mixture.
<b>Form</b>	Aerosol. Liquefied gas. Opaque foamy liquid.
<b>Color</b>	Tan.
<b>Odor</b>	Blend.
<b>Odor threshold</b>	Not available.
<b>pH</b>	13
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	-156.0 °F (-104.4 °C) Propellant estimated
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	1.9% estimated
<b>Explosive limit - upper (%)</b>	9.5% estimated
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.054 ± 0.01 (liquid)
<b>Relative density temperature</b>	75 °F (23.89 °C)
<b>Solubilities</b>	Soluble (liquid)
<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Auto-ignition temperature</b>	Not Available
<b>Decomposition temperature</b>	Not Available
<b>Viscosity</b>	
<b>Viscosity Temperature</b>	
<b>Other Information</b>	
<b>VOC's</b>	10.78 %
<b>Pressure</b>	68-80 psig @ 70F

## Section 10 - Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.

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**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

**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.

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<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Labels required</b>	None/Ninguno
<b>Packaging exemption</b>	306
<b>Packaging non bulk</b>	None/Ninguno
<b>Packaging bulk</b>	None/Ninguno
<b>Comment</b>	This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA**

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

**IMDG**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	AEROSOLS
<b>Transport hazard class(es)</b>	2.1
<b>Packaging group</b>	Not Applicable.
<b>Environmental hazards</b>	No.
<b>Marine pollutant</b>	
<b>Labels required</b>	2.1
<b>EmS</b>	F-D, S-U
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Packaging Exceptions</b>	LTD QTY

Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code Not applicable.

**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.

<b>TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)</b>	Not regulated.	
Components	Result	Comment
Liquified Petroleum Gas (CAS 68476-86-8)	8-12%	

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

<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	
Components	Result
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	LISTED
Potassium Hydroxide (CAS 1310-58-3)	LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	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 (HSPs) List**

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**Components**

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

<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Diethylene glycol monoethyl ether	(CAS 111-90-0)
<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.	
<b>Food and Drug Administration (FDA)</b>	Not regulated.	

**US state regulations**

<b>US.Massachusetts RTK - Substance List</b>	Components 2-Amino Ethanol (CAS 141-43-5) Potassium Hydroxide (CAS 1310-58-3) Diethylene Glycol Monoethyl Ether (CAS 111-90-0)
<b>US.New Jersey Worker and Community Right-to-Know Act</b>	Components 2-Amino Ethanol (CAS 141-43-5) Diethylene Glycol Monoethyl Ether (CAS 111-90-0)
<b>US.Pennsylvania RTK - Hazardous Substances</b>	Components 2-Amino Ethanol (CAS 141-43-5) Potassium Hydroxide (CAS 1310-58-3) Diethylene Glycol Monoethyl Ether (CAS 111-90-0)
<b>US.Rhode Island RTK</b>	Components 2-Amino Ethanol (CAS 141-43-5) Potassium Hydroxide (CAS 1310-58-3) Diethylene Glycol Monoethyl Ether (CAS 111-90-0)
<b>US - California Proposition 65</b>	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain 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 Notified 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**

<b>Issue date</b>	4/17/2015
<b>Version #</b>	01
<b>Disclaimer</b>	The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.