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

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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Aerosols</td>
<td>2</td>
</tr>
<tr>
<td>Gases Under Pressure, Compressed Gas</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, dermal</td>
<td>4</td>
</tr>
<tr>
<td>Acute toxicity, inhalation</td>
<td>4</td>
</tr>
<tr>
<td>Acute toxicity, oral</td>
<td>4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>1A</td>
</tr>
</tbody>
</table>

OSHA defined hazards: Not Classified.

Precautionary statement


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

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

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.
SAFETY DATA SHEET

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/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
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. 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.

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

Type
TWA

Value
140 mg/m³, 25 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Components
2-Amino Ethanol (CAS 141-43-5)
Liquified Petroleum Gas (CAS 68476-86-8)

Type
TWA
TWA

Value
6 mg/m³, 3 ppm
1000 ppm

US. ACGIH Threshold Limit Values
Component
Liquified Petroleum Gas (CAS 68476-86-8)
2-Amino Ethanol (CAS 141-43-5)
2-Amino Ethanol (CAS 141-43-5)
Potassium Hydroxide (CAS 1310-58-3)

Type
TLV
STEL
TWA
Ceiling

Value
6 ppm
3 ppm
2 mg/m³

US. NIOSH: Pocket Guide to Chemical Hazards
Components
2-Amino Ethanol (CAS 141-43-5)

Type
STEL

Value
15 mg/m³, 6 ppm
SAFETY DATA SHEET

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

Color
Tan.

Odor
Blend.

Odor threshold
Not available.

pH
13

Melting point/freezing point
Not available.

Initial boiling 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 (23.89 °C)

Solubilities
Soluble (liquid)

Partition Coefficient n-octanol/water
Not available

Auto-ignition temperature
Not Available

Decomposition temperature
Not Available

Viscosity

Viscosity Temperature

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.

Possibility 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.

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SAFETY DATA SHEET

Hazardous Decomposition Products
No hazardous decomposition products are known.

Section 11 - Toxicological information

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.

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

Skin corrosion/irritation
Prolonged skin contact may cause temporary irritation.

Serious eye damage/ eye irritation
Causess 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)

<table>
<thead>
<tr>
<th>Components</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Amino Ethanol (CAS 141-43-5)</td>
<td>-1.31</td>
</tr>
</tbody>
</table>

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.
SAFETY DATA SHEET

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Labels required
None/Ninguno

Packaging exemption
306

Packaging non bulk
None/Ninguno

Packaging bulk
None/Ninguno

Comment
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
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

Other Information
Read safety instructions, SDS and emergency procedures before handling.

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
No.

Labels required
2.1

EmS
F-D, S-U

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Other Information
LTD QTY

Transportation in bulk
Not applicable.

according to Annex II of MARPOL 73/78 and IBC Code

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)

<table>
<thead>
<tr>
<th>Components</th>
<th>Result</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquified Petroleum Gas (CAS 68476-86-8)</td>
<td>8-12%</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

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

CERCLA Hazardous Substance List (40 CFR 302.4)

<table>
<thead>
<tr>
<th>Components</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol Monoethyl Ether (CAS 111-90-0)</td>
<td>LISTED</td>
</tr>
<tr>
<td>Potassium Hydroxide (CAS 1310-58-3)</td>
<td>LISTED</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
<thead>
<tr>
<th>Hazard Categories</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Delayed Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SARA 302 Extremely hazardous substance</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not regulated.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SARA 311/312 Hazardous chemical</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SARA 313 (TRI reporting)</th>
<th>Chemical name</th>
<th>CAS #</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Diethylene Glycol Monoethyl Ether</td>
<td>111-90-0</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List
SAFETY DATA SHEET

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
2-Amino Ethanol (CAS 141-43-5)
Potassium Hydroxide (CAS 1310-58-3)
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 RTX - Hazardous Substances
Components
2-Amino Ethanol (CAS 141-43-5)
Potassium Hydroxide (CAS 1310-58-3)
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

US.Rhode Island RTK
Components
2-Amino Ethanol (CAS 141-43-5)
Potassium Hydroxide (CAS 1310-58-3)
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 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 (NDSSL) 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

Issue date 4/17/2015
Version # 01
Disclaimer
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.