

RATIONAL Grill Cleaner for RATIONAL CleanJet for Manual Cleaning MSDS

Section 1 – Chemical Product and Company Information

Product Name: RATIONAL Grill Cleaner
For RATIONAL CleanJet for Manual Cleaning
Article Number: 9006.0153
Product Use: Grill Cleaner

Preparation Date: 1/28/2011
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Section 2 – Composition Information

Component	CAS #	%
Potassium Hydroxide	1310-58-3	10 -20%
Sodium Metasilicate	6834-92-0	1 – 5%

Potassium Hydroxide, OSHA Permissible Exposure Limit (PEL) – 2 mg/m³; ACGIH Threshold Limit Value – 2 mg/m³

Ceilings: Alberta – 2 mg/m³; British Columbia - 2 mg/m³; Ontario - 2 mg/m³

Sodium metasilicate pentahydrate: Manufacturer's suggested exposure limit – 2 mg/m³



WHMIS Class: Class E – Corrosive Material

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Section 3 – Hazards Identification

Potential Health Effects:

Inhalation: Can cause serious damage to the upper respiratory tract depending upon exposure. Symptoms may include sneezing, sore throat, runny nose or burning pain. Severe pneumonitis may occur.

Ingestion: Can cause severe burns of the mouth, throat and stomach. Severe scarring of tissue may result. Symptoms include bleeding, vomiting, diarrhea and a fall in blood pressure. Damage may appear days after exposure.

Skin Contact: Can cause irritation or severe burns and scarring with greater exposure.

Eye Contact: Can cause severe irritation of eyes and with greater exposures can cause burns that may result in permanent impairment of vision, even blindness.

Chronic Effects. None Known

Section 4 – First Aid Measures

Inhalation: If inhaled, move to fresh air. If breathing is difficult, administer artificial respiration or oxygen as indicated. Contact a physician immediately.

Ingestion: Give small amounts of water. Do not induce vomiting. If vomiting occurs, keep head below hips to help prevent aspiration. Contact a physician immediately.

Skin: Wash affected area with soap and water. Immediately remove contaminated clothing and shoes. Launder contaminated clothing before reuse. Contact a physician if irritation develops.

Eyes: Flush with large amounts of cold water for at least 15 minutes. Do not let victim rub eyes. If irritation develops, contact a physician immediately.

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Section 5 – Fire Fighting Measures

Flash Point: None

Extinguisher Media: Carbon dioxide, Dry chemical, Foam, Water spray

Special Firefighting Procedures: Isolate fire area and deny unnecessary entry. Use water spray, dry chemical, foam or carbon dioxide.

Unusual Fire and Explosion Hazards: Product will not burn until water has evaporated. Residue can decompose into noxious, poisonous gas when exposed to the high temperatures of a fire. Perform only those firefighting procedures for which you have been trained. Firefighters should wear self contained breathing apparatus in the positive pressure mode with a full face piece where there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

National Fire Protection Association (NFPA): Health 3 Flammability 0 Reactivity 1
Other N/A

Section 6 – Accidental Release Measures

Spill & Leak Response: Do not allow spilled material to enter sewers or streams. Add dry material to absorb (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal. Flush area with water to remove residues.

Follow applicable Federal, Provincial and local reporting requirements.

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Section 7 – Handling and Storage

Handling: No special precautions necessary. Avoid container damage while handling. Practice reasonable care to avoid repeated, prolonged skin contact.

Work Practices: Read label for instructions in use of product.

Storage: Store in closed containers in a cool, dry well ventilated area. Maintain closure of bungs. Store at temperatures between 0°C and 40°C. May decompose if frozen below 0°C. Do not reuse container. Avoid container damage while storing.

Empty Container Warning: Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, bronze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause injury or death. Do not attempt to refill containers since residue is difficult to remove. Empty drums should be completely drained, properly bunged and returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner in accordance with governmental regulations.

Section 8 – Exposure Controls/ Personal Protection

Exposure limits

Potassium Hydroxide, OSHA Permissible Exposure Limit (PEL) – 2 mg/m³; ACGIH Threshold Limit Value – 2 mg/m³

Ceilings: Alberta – 2 mg/m³; British Columbia - 2 mg/m³; Ontario - 2 mg/m³

Sodium metasilicate pentahydrate: Manufacturer's suggested exposure limit – 2 mg/m³

Respiratory Protection: Not normally required if good ventilation is maintained

Protective Gloves: Wear neoprene rubber gloves if prolonged contact may occur or for those with sensitive skin.

Eye Protection: Safety glasses with side shields or chemical goggles are required. Contact lenses should also not be worn if the product could be splashed into the eyes.

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Other Protective Wear: If product use involves single, short duration exposures, then no additional protective wear for covering the skin is required. For prolonged or repeated exposures to the skin, wear impervious, protective clothing including rubber safety shoes to avoid skin contact.

General Protection: Do not inhale vapors and aerosols. Avoid contact with eyes and skin.

Section 9 - Physical/Chemical Characteristics

Appearance and Odor: Clear, red liquid, characteristic odor

Boiling Point: Approximately 100°C

Flash Point: None

Flammable Limits in air % by volume: N/A

Auto-Ignition Temp: N/A

UEL: N/A

LEL: N/A

Specific Gravity: 1.11 @ 20°C

Vapor Pressure @ 20°C: N/A

Vapor Density: N/A

Solubility in Water: Miscible

Freezing Point: N/D

pH, 10%: 11.9

Section 10 – Stability and Reactivity

Stability: Stable X Unstable

Conditions to Avoid: Contact with heat, sparks, flame and all sources of ignition

Incompatibilities: Strong oxidizing agents and strong acids

Hazardous Decomposition Products: Oxides of carbon, potassium, nitrogen, silicon and sodium and sulfur

Hazardous Polymerization: May occur Will not occur X

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Section 11 – Toxicological Data

Eye Irritation: N/D
Skin Irritation: N/D
Dermal Toxicity: N/D
Oral Toxicity: LD 50 for Potassium hydroxide – 273 mg/kg (Rat)
Inhalation Toxicity: N/D
Repeated Dose Toxicity: N/D

Carcinogenicity:

NTP: No
IARC: No
ACGIH: No

Section 12 – Ecological Information

No further information is known

Mobility: Not established

Persistence and Degradability: Not established.

Section 13 – Disposal Considerations

Waste Disposal: All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with Good Engineering Practices. Comply with all applicable governmental regulations. Avoid land filling of liquids.

Product can be disposed of in a licensed facility.

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Section 14 – Transport Information

Canadian TDG Classification:

Proper Shipping Name: Corrosive Liquid, Basic N.O.S. (Potassium Hydroxide)

ID No. UN 1814

Hazard Class: 8

PG II

US Department of Transportation Classification

Proper Shipping Name: Corrosive Liquid, Basic N.O.S. (Potassium Hydroxide)

ID No. UN 1814

Hazard Class: 8

PG II

Section 15 – Regulatory Information

WHMIS: Class E

US EPA Section 313 Toxic Chemical - no

DSL (Domestic Substances List)

All of the ingredients in this product are listed on the Canadian DSL

TSCA (Toxic Substance Control Act)

All of the ingredients in this product are listed on the TSCA Inventory.

Section 16 – Other Information

None

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