

MATERIAL SAFETY DATA SHEET

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SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME : GRILL & OVEN CLEANER
CHEMICAL NAME : HIGHLY ALKALINE BLEND
FORMULA : PROPRIETARY
DOT HAZARD CLASS : CORROSIVE, POTASSIUM HYDROXIDE SOLUTION, UN#1814

Table with 3 columns: HAZARD RATING (NFPA 704), HAZARD RATING, and PROTECTIVE EQUIPMENT. Rows include HEALTH, FIRE, REACTIVITY, and PROTECTIVE EQUIPMENT details.

CHEMTREC'S 24 HOUR EMERGENCY TELEPHONE NUMBER 800-424-9300

SECTION II HAZARDOUS INGREDIENTS

SUBSTANCES LISTED IN THIS SECTION ARE THOSE IDENTIFIED AS BEING PRESENT AT A CONCENTRATION OF 1% OR GREATER, OR 0.1% IF THE SUBSTANCE IS ON THE LIST OF POTENTIAL CARCINOGENS CITED IN OSHA HAZARD COMMUNICATION STANDARD.

Table with 4 columns: MATERIAL, CAS#, TLV, PEL. Lists POTASSIUM HYDROXIDE, DIETHYLENE GLYCOL MONOETHYL ETHER, and SODIUM METASILICATE ANHYDROUS.

SECTION III PHYSICAL DATA

BOILING POINT (°F) : 212 VOLATILE : 80%
VAPOR PRESSURE (AIR=1) : >1 SOLUBILITY IN WATER: COMPLETE
VAPOR DENSITY (AIR=1) : >1 EVAPORATION RATE (H2O=1) : 1.0
SPECIFIC GRAVITY: 1.187-1.197 VISCOSITY (@ 68°F) : WATER THIN
PH CONCENTRATE: 13.5 +/- .5
DESCRIPTION: CLEAR GREENISH YELLOW LIQUID, MILD ODOR

SECTION IV FIRE AND EXPLOSION HAZARDS

FLASH POINTS: NON-COMBUSTIBLE METHOD USED: C.O.C.
FLAMMABLE LIMITS LEL/UEL: NA
EXTINGUISHING MEDIA: WATER SPRAY, FOAM, CARBON DIOXIDE MAY BE USED. WATER RUN-OFF FROM FIREFIGHTING OPERATIONS MAY BE CORROSIVE.
UNUSUAL FIRE OR EXPLOSIVE HAZARD: CONTACT WITH METALS SUCH AS MAGNESIUM, ALUMINUM, GALVANIZED ZINC TO GENERATE EXPLOSIVE HYDROGEN GAS.

SECTION V HEALTH HAZARD DATA

SIGNS AND SYMPTOMS OF EXPOSURE (SKIN, EYE CONTACT; INHALATION; INGESTION)

EYE CONTACT : DESTRUCTIVE TO EYE TISSUE UPON CONTACT. A SMALL QUANTITY CAN RESULT IN PERMANENT DAMAGE AND/OR LOSS OF VISION.
INHALATION : CAN CAUSE IRRITATION TO THROAT AND RESPIRATORY TRACT. A BURNING SENSATION IN THE NOSE, THROAT AS WELL AS COUGHING AND CHOKING MAY BE NOTED. CONTINUED DEEP INHALATION MAY RESULT IN DAMAGES INCLUDING DESTRUCTION OF LUNG TISSUES, SEVERE PNEUMONITIS, EVEN DEATH.
INGESTION : CAN CAUSE SEVERE BURN OF MUCOUS MEMBRANE OF THE MOUTH, THROAT, ESOPHAGUS, AND STOMACH. MAY RESULT IN PERMANENT DAMAGE OF TISSUES WHEREAS CONTACT IS MADE.
SKIN CONTACT : CAN CAUSE IRRITATION TO SKIN UPON CONTACT WITH POWDER. CONTACTING WITH CONCENTRATED SOLUTION WILL CAUSE IMMEDIATE LOCAL REACTION INCLUDING ITCHING, IRRITATION, FOLLOWED BY LOSS OF SURFACE LAYERS OF SKINS. PROLONGED CONTACT WITH SOLUTION MAY CAUSE CHRONIC DERMATITIS.

**FIRST AID MEASURES**

EYE CONTACT : IMMEDIATELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS TO ENSURE FLUSHING OF THE ENTIRE SURFACE. SEEK MEDICAL ATTENTION IMMEDIATELY.

INHALATION : REMOVE TO FRESH AREA. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING STOP, START ARTIFICIAL RESUSCITATION. TRANSPORT VICTIM TO A MEDICAL FACILITY IMMEDIATELY.

INGESTION : DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER AND SEEK MEDICAL ATTENTION IMMEDIATELY. IF VOMITING OCCUR INVOLUNTARILY, ADMINISTER ADDITIONAL WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SKIN CONTACT : WASH SKIN WITH LOTS OF SOAP AND WATER. IF SKIN IS FELT SLIPPERY, CAUSTIC IS STILL PRESENT IN SUFFICIENT QUANTITIES TO CAUSE RASH BURN. CONTINUE WASHING UNTIL SLICK SKIN FEELING IS COMPLETELY GONE. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE REUSE. IF IRRITATION OCCURS AND PERSISTS SEEK MEDICAL ATTENTION AS NEEDED.

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**SECTION VI REACTIVITY DATA**  
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STABILITY: STABLE  
 INCOMPATIBILITY : ACIDS, OXIDIZERS, ORGANIC MATERIALS MAY CAUSE VIOLENT REACTIONS.  
 POLYMERIZATION: WILL NOT OCCUR  
 CONDITIONS TO AVOID: EXCESSIVE HEAT.  
 HAZARDOUS DECOMPOSITION: REACT WITH FOOD/DRINKS CONTAINING SUGAR TO FORM DEADLY CARBON MONOXIDE

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**SECTION VII SPILL OR LEAK PROCEDURES**  
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CLEAN-UP PROCEDURES: WEAR PROTECTIVE EQUIPMENTS INCLUDING NIOSH-APPROVED FULL FACEPIECE COMBINATION MIST AND ACID GAS RESPIRATORS, RUBBER BOOTS, AND FULL-LENGTH CLOTHING DURING CLEAN-UP OPERATIONS. ONLY TRAINED PERSONNEL SHOULD BE INVOLVED. DIKE, ISOLATE AREAS TO CONTAIN SPILLS. RECLAIM AS MUCH AS POSSIBLE, OR DILUTE SPILL WITH LARGE AMOUNT OF WATER, THEN NEUTRALIZE WITH DILUTED ACIDS. USE VACUUM TRUCK TO PICK UP NEUTRALIZED MATERIAL FOR PROPER DISPOSAL. AFTER ALL VISIBLE TRACES HAVE BEEN REMOVED, FLUSH CONTAMINATED AREAS WITH WATER.

RECOMMENDED WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ENSURE THAT ALL RESPONSIBLE FEDERAL, STATE, LOCAL AGENCIES RECEIVE PROPER NOTIFICATION OF SPILLS AND DISPOSAL METHODS.

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**SECTION VIII SPECIAL PROTECTION DATA**  
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RESPIRATORY PROTECTION : NIOSH-APPROVED RESPIRATOR IF MIST/VAPOR IS GENERATED.  
 EYE PROTECTION : SAFETY GOGGLES FOR CHEMICAL FLASH, FACE SHIELD.  
 PROTECTIVE CLOTHING : RUBBER GLOVES, FULL-LENGTH CLOTHING.  
 VENTILATION : LOCAL EXHAUST  
 OTHER PROTECTIVE MEASURES: EYEWASH FOUNTAIN AND SAFETY SHOWER

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**SECTION IX SPECIAL PRECAUTION**  
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HYGIENIC PRACTICES IN HANDLING STORING: WASH THOROUGHLY AFTER HANDLING. DO NOT EAT, DRINK, OR SMOKE IN THE WORKING AREAS.  
 PRECAUTION TO BE TAKEN IN HANDLING AND STORING: STORE IN COOL, DRY, VENTILATED AREAS.  
 DISPOSAL OF EMPTY CONTAINER: EMPTY CONTAINERS SHOULD BE TRIPLE RINSED WITH WATER AND DISPOSED OF PURSUANT TO LOCAL, STATE, AND FEDERAL REQUIREMENTS.

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**SECTION X USER'S RESPONSIBILITY**  
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THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH THE USER. THE USER SHOULD CONSIDER THE HEALTH HAZARD AND SAFETY INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE THOSE PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO INSTRUCT EMPLOYEES AND DEVELOP WORK PRACTICE PROCEDURES FOR A SAFE WORK ENVIRONMENT.

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 THE INFORMATION CONTAINED HEREIN, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, IS ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.  
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