

## 1. PRODUCT AND COMPANY IDENTIFICATION

**NAME: FOAMING OVEN & GRILL CLEANER**

**USE:** OVEN CLEANER

**LABEL: ARRAY**

**MSDS # 4342542 GFS REORDER # 596108**

US CHEMICAL, 316 HART STREET, WATERTOWN WI 53094 USA

MEDICAL EMERGENCY #: 1-800-851-7145 EXT. 075 USA

SPILL EMERGENCY #: 1-800-424-9300 USA

PRODUCT INFORMATION #: 1-800-558-9566 (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)

INTERNET ADDRESS: [WWW.USCHEMICAL.COM](http://WWW.USCHEMICAL.COM)

REVIEWED 6-19-06 REVISED 6-19-06 SECTION REVISED: 1

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** DANGER! CORROSIVE. HARMFUL OR FATAL IF SWALLOWED. CAUSES EYE AND SKIN BURNS. AEROSOL. CONTENTS UNDER PRESSURE. TEMPERATURE ABOVE 120°F OR 49°C MAY CAUSE CAN TO BURST. IF FIRE OCCURS, USE EQUIPMENT TO SHIELD OR PROTECT PERSONNEL FROM VENTING OR RUPTURING AEROSOL CANS.

**PRINCIPLE ROUTES OF EXPOSURE:** SKIN, EYES, INHALATION

### POTENTIAL ACUTE HEALTH EFFECTS

**EYES:** CORROSIVE. CAUSES EYE BURNS. MAY CAUSE PERMANENT DAMAGE INCLUDING BLINDNESS WITHOUT IMMEDIATE FIRST AID TREATMENT.

**SKIN:** CORROSIVE. CAUSES SKIN BURNS. MAY CAUSE PERMANENT DAMAGE. HARMFUL CONTACT MAY NOT CAUSE IMMEDIATE PAIN.

**INHALATION:** INHALATION OF VAPORS MAY CAUSE IRRITATION TO NOSE, THROAT, AND MUCOUS MEMBRANES, HEADACHE, DIZZINESS, DROWSINESS AND PULMONARY IRRITATION. INHALATION OF MISTS MAY CAUSE CORROSIVE EFFECTS TO NOSE, THROAT, AND RESPIRATORY SYSTEM. SEVERITY DEPENDS ON DEGREE OF EXPOSURE.

**INGESTION:** CORROSIVE. MAY CAUSE BURNS TO MOUTH, THROAT AND STOMACH. HARMFUL OR FATAL IF SWALLOWED.

**MEDICAL CONDITIONS AGGRAVATED:** PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS.

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
PROPANE	74-98-6	BELOW 5.0	N.AV.
N-BUTANE	106-97-8	BELOW 5.0	N.AV.
SODIUM HYDROXIDE	1310-73-2	5.0 – 10.0	SEE 11.
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5	5.0 – 10.0	N.AV.
MONOETHANOLAMINE	141-43-5	1.0 – 5.0	N.AV.

**STATE RIGHT TO KNOW:** THIS PRODUCT CONTAINS:

SODIUM HYDROXIDE/1310-73-2, DIETHYLENE GLYCOL BUTYL ETHER /112-34-5,

MONOETHANOLAMINE/141-43-5, WATER/7732-18-5, PROPANE/74-98-6, N-BUTANE/106-97-8

#### 4. FIRST AID MEASURES

Page 2 of 4

**EYES:** IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15-20 MINUTES, KEEPING EYELIDS OPEN. **SKIN:** IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15-20 MINUTES. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. **IF SWALLOWED:** GIVE A CUPFUL OF WATER OR MILK. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**INHALATION: IF BREATHING IS AFFECTED:** REMOVE TO FRESH AIR.

**ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-851-7145 EXT. 075 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.**

**NOTE TO PHYSICIAN:** CALL 1-800-851-7145 EXT. 075 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

#### 5. FIRE-FIGHTING MEASURES

**FLAMMABILITY:** PRODUCT IS NOT REQUIRED TO BE LABELED AS FLAMMABLE AS DESCRIBED BY 16 CFR 1500.3 and 1500.45.

**FLAMMABILITY LIMITS (PROPELLANT):** SEE SECTION 9.

**FLASH POINT:** PROPELLANT = BELOW 0°F, CONCENTRATE= ABOVE 214°F

**PRODUCTS OF COMBUSTION:** SEE SECTION 10.

**SUITABLE EXTINGUISHING MEDIA:** TO FIGHT FIRE, USE CARBON DIOXIDE, DRY CHEMICAL OR ALCOHOL FOAM.

**SPECIFIC HAZARDS:** CONTENTS ARE UNDER PRESSURE IN AEROSOL CAN. TEMPERATURE ABOVE 120°F OR 49°C MAY CAUSE AEROSOL CAN TO BURST OR RUPTURE.

**SPECIFIC METHODS:** COOL CONTAINERS WITH WATER SPRAY TO PREVENT VAPOR PRESSURE BUILD UP. USE EQUIPMENT OR SHIELDING, AS REQUIRED, TO PROTECT PERSONNEL FROM BURSTING, RUPTURING OR VENTING CONTAINERS.

#### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** SEE SECTION 8. PUT ON APPROPRIATE PPE.

**SPILL RESPONSE:** IF CONTAINERS BEGIN TO LEAK THROUGH PUNCTURE OR DEFECTIVE PACKAGING, ALLOW IT TO DISCHARGE COMPLETELY IN A WELL VENTILATED AREA. WEAR PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. REMOVE SOURCES OF IGNITION. AVOID HEAT, SPARK OR FLAME. KEEP COMBUSTIBLES AWAY! AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INERT ABSORBENT MATERIALS. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES. BE CAREFUL AS SPILLS ARE SLIPPERY.

#### 7. HANDLING AND STORAGE

**HANDLING:** FOLLOW ALL LABEL DIRECTIONS. AVOID HEAT, SPARKS OR OPEN FLAME. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES. AVOID INHALATION, INGESTION AND CONTACT WITH SKIN AND EYES. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. HANDLE CAREFULLY TO AVOID PUNCTURE.

**STORAGE:** ROTATE STOCK REGULARLY. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER. KEEP AWAY FROM SPARKS, OR OPEN FLAME. KEEP FROM FREEZING. STORE IN A COOL DRY AREA OUT OF DIRECT SUNLIGHT. KEEP OUT OF CHILDREN'S REACH. KEEP AWAY FROM FOOD AND DRINKING WATER. STORE AS LEVEL 1 AEROSOL (NFPA 30B).

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Page 3 of 4

**EXPOSURE LIMITS:** LIQUEFIED PETROLEUM GAS = 1000 PPM TWA (ACGIH/OSHA)  
 SODIUM HYDROXIDE = 2 MG/M3 CEILING LIMIT (ACGIH), 2 MG/M3 TWA (OSHA)  
 MONOETHANOLAMINE = 3 PPM TWA, 6 PPM STEL (ACGIH), 3 PPM TWA (OSHA)

**ENGINEERING CONTROLS:** NOT ORDINARILY NEEDED. SPRAY AWAY FROM YOURSELF TO AVOID INHALATION OF MISTS. IF EXPOSURE EXCEEDS LIMITS FOR PEL/TLV, USE A NIOSH APPROVED RESPIRATOR.

**PERSONAL PROTECTION**

**EYES:** SPLASH PROOF SAFETY GLASSES, SAFETY GOGGLES AND AN EYE WASH STATION.

**HANDS:** CHEMICAL RESISTANT GLOVES: CONSULT GLOVE MANUFACTURER.

**RESPIRATORY:** IF MISTS/VAPORS ARE NOT CONTROLLED BY VENTILATION, WEAR SUITABLE RESPIRATOR.

**FEET:** TYPICALLY NOT NEEDED. WEAR BOOTS DURING SPILL & WHEN EXPOSURE IS POSSIBLE.

**BODY:** IF MAJOR EXPOSURE IS POSSIBLE, WEAR FULL-COVER PROTECTIVE CLOTHING.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**COLOR:** BLUE

**ODOR :** CHARACTERISTIC

**pH CONCENTRATE:** ABOVE 13.0 (BASIC)

**pH @ 2500 PPM SOLUTION:** N.AP.

**pH @ USE DILUTION:** N.AP.

**PHYSICAL STATE:** LIQUID IN AEROSOL CAN

**SPECIFIC GRAVITY:** 1.008

**VISCOSITY:** N.AV.

**BOILING POINT:** N.AP.

**MELTING POINT:** N.AP.

**FLASH POINT:** SEE SECTION 5.

**UEL:** 9.5% (FOR PROPELLANT)

**LEL:** 1.9% (FOR PROPELLANT)

**EVAPORATION RATE:** N.AV.

**ODOR THRESHOLD:** N.AV.

**VAPOR PRESSURE:** 146@130°F PSIG

**VAPOR DENSITY:** N.AV.

**COEFF. OIL/WATER:** N.AP.

**WATER SOLUBILITY:**

APPRECIABLE

**OTHER:** N.AP.

**10. STABILITY AND REACTIVITY**

**STABLE:** YES

**CONDITIONS TO AVOID:** DO NOT STORE ABOVE 49°C OR 120°F. KEEP AWAY FROM HEAT, DIRECT SUNLIGHT, OPEN FLAMES OR SPARKS. AVOID SPRAYING ON HOT SURFACES. DROPPING MAY CAUSE CONTAINER TO BURST.

**MATERIALS TO AVOID:** AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT. AVOID ACIDS. AVOID VARIOUS METALS SUCH AS ALUMINUM, ZINC AND TIN.

**DECOMPOSITION PRODUCTS:** FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.

**POSSIBILITY OF HAZARDOUS REACTIONS:** N.AP.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE EFFECTS:** SEE SECTION 2.

**CHRONIC EFFECTS:** NONE KNOWN. NO REPORTABLE CARCINOGENS, MUTAGENS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.

**LC50/LD50:** SODIUM HYDROXIDE 50%: 350 MG/KG ORAL-RAT LD50

**TARGET ORGANS:** EYES, SKIN, RESPIRATORY SYSTEM

**OTHER TOXIC EFFECTS:** NONE KNOWN.

**12. ECOLOGICAL INFORMATION**

Page 4 of 4

NOT AVAILABLE.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** UNDILUTED PRODUCT IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS AS A CORROSIVE WASTE. COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS. CONSULT REGULATORY AGENCIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. DO NOT THROW IN FIRE. DO NOT PUNCTURE OR INCINERATE CONTAINERS. WHEN CONTENTS ARE DEPLETED CONTINUE TO DEPRESS BUTTON UNTIL ALL GAS IS EXPELLED. AEROSOL CYLINDER IS NOT REFILLABLE. GIVE TO A DISPOSAL SERVICE EQUIPPED TO SAFELY DISPOSE OF PRESSURIZED CONTAINERS. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

**14. TRANSPORT INFORMATION****DOT/TDG:** CONSUMER COMMODITY, ORM-D**DOT RQ:** N.AP.**IMDG:** AEROSOLS, 2, UN1950, LIMITED QUANTITY**15. REGULATORY INFORMATION****EPA CERCLA RQ:** N.AP.**EPA REGISTERED:** NO**EPA %VOC:** 7.00**EPA VOC RULE:** PRODUCT COMPLIES WITH THE EPA VOC EMISSIONS STANDARD.**KOSHER (CRC):** NO**OSHA HAZARDOUS:** YES**PHOSPHORUS CONTENT:** 0.00%**PROPOSITION 65:** N.AP.**SARA 311/312 HAZARDS:** ACUTE, FIRE, PRESSURE**SARA 313 CHEMICALS:** DIETHYLENE GLYCOL BUTYL ETHER**STATE RIGHT TO KNOW:** SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.**TSCA INVENTORY STATUS:** ALL COMPONENTS ARE LISTED ON THE INVENTORY.**16. OTHER INFORMATION****NFPA RATING:** HEALTH-3/FLAMMABILITY-2/REACTIVITY-0/SPECIAL HAZARD-N.AP.**HMIS RATING:** HEALTH-3/FLAMMABILITY-2/REACTIVITY-0/PERSONAL PROTECTION-SEE 8.0

N.AV. = NOT AVAILABLE    N.AP. = NOT APPLICABLE

PREPARED BY: HEALTH AND SAFETY

**NOTICE TO READER**

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE FOR EVALUATING ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.