

1. PRODUCT AND COMPANY IDENTIFICATION

NAME: FOAMING OVEN & GRILL CLEANER

USE: OVEN CLEANER

LABEL BRAND: ARRAY

MSDS # 4342542 GFS REORDER # 596108

US CHEMICAL, 316 HART STREET, WATERTOWN WI 53094 USA

MEDICAL EMERGENCY #: 1-866-923-4913 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

REVIEWED 9-1-10 REVISED 9-1-10 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
LIQUEFIED PETROLEUM GAS – PROPANE	74-98-6	BELOW 5.0	N.AV.
LIQUEFIED PETROLEUM GAS – N-BUTANE	106-97-8	BELOW 5.0	N.AV.
SODIUM HYDROXIDE	1310-73-2	5.0 – 10.0	SEE 11.
DIETHYLENE GLYCOL MONOBUTYL 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: WATER/7732-18-5, SODIUM HYDROXIDE/1310-73-2, DIETHYLENE GLYCOL MONOBUTYL ETHER /112-34-5, MONOETHANOLAMINE/141-43-5, LIQUEFIED PETROLEUM GAS/68476-86-8

4. FIRST AID MEASURES

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EYES: FLOOD WITH LUKEWARM (NOT HOT) WATER Poured from a large glass 2 or 3 inches from eyes. Remove contacts. Have patient blink as much as possible while flooding the eyes. Continue for at least 15 minutes.

SKIN: REMOVE CONTAMINATED CLOTHES, THEN FLOOD WITH WATER FOR AT LEAST 15 MINUTES.

INHALATION: MOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF PATIENT IS NOT BREATHING.

INGESTION: DO NOT INDUCE VOMITING. IF PATIENT IS CONSCIOUS AND CAN SWALLOW, ADMINISTER MILK OR WATER.

ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-866-923-4913 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.

NOTE TO PHYSICIAN: CALL 1-866-923-4913 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

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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	FLASH POINT: SEE SECTION 5.
ODOR: CHARACTERISTIC	UEL: 9.5% (FOR PROPELLANT)
pH CONCENTRATE: ABOVE 13.0 (BASIC)	LEL: 1.9% (FOR PROPELLANT)
pH @ 2500 PPM SOLUTION: N.AP.	EVAPORATION RATE: N.AV.
pH @ USE DILUTION: N.AP.	ODOR THRESHOLD: N.AV.
PHYSICAL STATE: LIQUID IN AEROSOL CAN	VAPOR PRESSURE: 146@130°F PSIG
SPECIFIC GRAVITY: 1.008	VAPOR DENSITY: N.AV.
VISCOSITY: N.AV.	COEFF. OIL/WATER: N.AP.
BOILING POINT: N.AP.	WATER SOLUBILITY:
MELTING POINT: N.AP.	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

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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: UN1950, AEROSOLS, 2.1, (8), LTD. QTY.

15. REGULATORY INFORMATION

EPA CERCLA RQ: N.AP.
EPA REGISTERED: NO
OSHA HAZARDOUS: YES
PHOSPHORUS CONTENT: 0.00%
PROPOSITION 65: N.AP.
SARA 311/312 HAZARDS: ACUTE, FIRE, PRESSURE
SARA 313 CHEMICALS: DIETHYLENE GLYCOL MONOBUTYL ETHER
STATE RIGHT TO KNOW: SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.
TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.
VOC: 7.00% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

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

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