

MATERIAL SAFETY DATA SHEET

FCC002280 - 10/10/91

PAGE 2

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SECTION I - PRODUCT IDENTIFICATION

/CAMIE 22/80 NATURAL CITRUS CLEANER
CLEANER
FCC002280

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	THAN	(TOL-TAL)	(TOL-STEL)	(TOL-CELLING)	MATION	MMG	20C	CARCINOGEN	313
PROPYLENE GLYCOL	5999-27-5	80%	NO INFO	NO INFO	NO INFO	NO	NO	2.0	NO	NO
DIETHYLENE GLYCOL	71-98-6 & 75-28-5	25%	800 PPM	NO INFO	NO INFO	NO	NO	1395.2	NO	NO
ETHYLENE GLYCOL	N.A.	5%	NO INFO	NO INFO	NO INFO	NO	NO	0.0	NO	NO
SULFURIC ACID	N.A.	5%	NO INFO	NO INFO	NO INFO	NO	NO	0.0	NO	NO

SECTION III - PHYSICAL DATA

HOLLING RANGE : -43- 325 F
 ORIG : ORANGE TERPENE
 APPEARANCE : PALE YELLOW LIQ.
 VOLATILE BY WEIGHT: 100.0%
 VOLATILE BY VOLUME: 100.0%

VAHOR DENSITY : IS HEAVIER THAN AIR
 EVAPORATION RATE: IS FASTER THAN BUTYL
 SOLUBILITY : ACETATE
 PRODUCT DENSITY : 6.3 LBS./GAL. (US)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:
 FLASH POINT: -156 F
 (PENSKY-MARTENS CLOSED CUP) UFL: 9.5 %
 OSHA - FLAMMABLE LIQUID - CLASS IA
 DOT - CONSUMER COMMODITY ORM-D

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

UNUSUAL FIRE AND EXPLOSION HAZARDS: ALL 5 GAL PAILS AND LARGER SHOULD BE GROUNDED AND/OR BONDED DURING MATERIAL TRANSFERAL. FOR ARKSON. PRODUCTS - EXPOSURE TO TEMPERATURES OVER 130F MAY CAUSE CONTAINERS TO BURST, RELEASING HIGHLY FLAMMABLE GAS.

SPECIAL FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE WHEN FIGHTING FIRES.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVER EXPOSURE: EYE CONTACT: CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION, SKIN CONTACT: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS. INHALATION: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS, AND EVEN ASPHYXIATION.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: NONE KNOWN.
 PRIMARY ROUTE(S) OF ENTRY: INHALATION DERMAL

EMERGENCY AND FIRST AID PROCEDURES: SKIN CONTACT: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE RE-USE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER. LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE TWO GLASSES OF WATER IF CONSCIOUS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET IMMEDIATE MEDICAL ATTENTION. INHALATION: REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. KEEP PERSON WARM, QUIET. GET MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE, AMMONIA, SULFUR DIOXIDE, HYDROGEN SULFIDES, NITROGEN OXIDE,

CONDITIONS TO AVOID: HEAT, SPARKS, WELDING ARCS, OPEN FLAME, AND STATIC ELECTRICITY.

INCOMPATIBILITY: OXIDIZING AGENTS, ALKALI, CAUSTICS,

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE SOURCES OF IGNITION & VENTILATE AREA. PERSONS NOT PROPERLY EQUIPPED SHOULD BE EXCLUDED FROM AREA. STOP SPILL AT SOURCE -PREVENT SPREADING. AVOID INHALATION OF VAPORS. AVOID SKIN CONTACT WITH LIQUID. SOAK UP OR ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR DISPOSAL. USE PLASTIC SCOPES FOR FLAMMABLE MATERIALS.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL

SECTION VII - SPILL OR LEAK PROCEDURES

REGULATIONS.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IF WORKPLACE EXPOSURE LIMITS OF PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS. SEE YOUR SAFETY EQUIPMENT SUPPLIER, ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL VENTILATION (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS: PVC/NITRILE, NEOPRENE

EYE PROTECTION: OSHA APPROVED CHEMICAL SPLASH GOGGLES ARE ADVISED, HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN DESIGNATED AREAS ONLY. REMOVE AND LAUNDER CLOTHING.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: IT IS RECOMMENDED THAT THIS MATERIAL BE STORED IN A COOL, DRY, VENTILATED AREA. KEEP AWAY FROM HEAT SOURCES, OPEN FLAME, SPARKS. DO NOT STORE ABOVE 120F. DO NOT STORE IN DIRECT SUNLIGHT. DO NOT TRANSFER TO UNMARKED CONTAINERS. KEEP FROM REACH OF CHILDREN. DO NOT PUNCTURE, INCINERATE, OR PLACE AEROSOL PRODUCT CONTAINERS IN COMPACTORS.

OTHER PRECAUTIONS: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE CONTAINERS RETAIN PRODUCT RESIDUES (VAPOUR, LIQUID, AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN MUST BE OBSERVED. DO NOT FLAME CUT, BRAZE, OR USE WELDING TORCH. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL.

SECTION X - HMIS RATINGS

HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 0 PERSONAL PROTECTION: X

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