

9-KEM, INC.  
402 SUSANA RD.  
RANCHO DOMINGUEZ, CA 90221  
EMERGENCY TEL. NO. 310-632-7124

MATERIAL SAFETY DATA SHEET  
ESSENTIALLY SIMILAR TO FORM OSHA 174

SECTION I. IDENTIFICATION OF PRODUCT

IDENTITY: [SHIELD-ALL] AQUEOUS SILICONE EMULSION  
MSDS NUMBER: 611  
DATE PREPARED: 2-1-90  
REVISION: 1

HAZARD RATINGS:

4 = EXTREME                    1 = SLIGHT  
3 = HIGH                        0 = INSIGNIFICANT  
2 = MODERATE                \* = SEE SECTION IV

TOXICITY: 0  
FIRE: 0  
REACTIVITY: 0  
SPECIAL: A

SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL  
IDENTITY--COMMON NAME(S)): NONE.  
THIS PRODUCT IS A WATER BASED  
FORMULATION CONTAINING A SILICONE  
FLUID THE SPECIFIC INGREDIENTS OF  
WHICH ARE REPORTED TO BE A TRADE  
SECRET.

CAS NUMBER: MIXTURE  
OSHA PEL: NONE ESTABLISHED  
ACGIH TLV: NONE ESTABLISHED  
OTHER LIMITS RECOMMENDED: NONE  
% (OPTIONAL): NA

SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 212 F  
VAPOR PRESSURE (MM HG.): 23MM @77F (WATER)  
VAPOR DENSITY (AIR = 1): 0.6 (WATER)  
SOLUBILITY IN WATER: COMPLETE  
APPEARANCE: MILKY LIQUID  
ODOR: BLAND ODOR

SPECIFIC GRAVITY (H2O=1): 0.995  
MELTING POINT: NA  
EVAPORATION RATE  
(BUTYL ACETATE = 1): <1  
PH @ 77 F: 10+0.3

ION IV. FIRE AND EXPLOSION HAZARD DATA

CASH POINT(METHOD USED): NONE (TCC)

FLAMMABLE LIMITS:

LEL: NA

UEL: NA

EXTINGUISHING MEDIA: WATER SPRAY, DRY CHEMICALS AND CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SECTION V. HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF EXPOSURE: INHALATION? EYES? X SKIN? X INGESTION?  
(ACUTE) HEALTH HAZARDS:

EYES: CONTACT WITH SPRAY OR LIQUID MAY CAUSE TRANSIENT IRRITATION OF THE EYES.

SKIN: CONTACT WITH SKIN OF THIS MATERIAL IS NOT KNOWN TO CAUSE IRRITATION.

INGESTION: NO DATA KNOWN OF IRRITATION TO DIGESTIVE TRACT.

INHALATION: NOT EXPECTED TO CAUSE PROBLEMS FROM FUMES.

(CHRONIC) HEALTH HAZARDS:  
NONE KNOWN

SIGNS AND SYMPTOMS OF EXPOSURE:

EYES: WATERING AND SLIGHT TRANSIENT EYE IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:  
NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH EYES WITH LARGE VOLUMES OF WATER FOR 15 MINUTES. OBTAIN MEDICAL  
ATTENTION IF IRRITATION OCCURS.

SKIN: FLUSH WITH WATER AND WASH WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION  
IF IRRITATION OCCURS.

INGESTION: IF SWALLOWED, GIVE SEVERAL GLASSES OF WATER. DO NOT INDUCE VOMITING  
OBTAIN MEDICAL ADVICE IF STOMACH SHOULD BE AVACUATED. DO NOT GIVE ANYTHING BY  
MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IF IRRITATION  
OCCURS OR BREATHING BECOMES DIFFICULT.

SECTION VI. TOXICITY DATA

MUTAGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

ORAL: ND

DERMAL: NON IRRITANT TO RABBIT SKIN

INHALATION: ND

SECTION VII. REACTIVITY DATA

ABILITY - UNSTABLE:  
STABLE: X

CONDITIONS TO AVOID: NONE KNOWN

INCOMPATIBILITY (MATERIALS TO AVOID): MATERIALS WHICH REACT WITH WATER

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REPORTED

HAZARDOUS POLYMERIZATION -

MAY OCCUR:                    X  
WILL NOT OCCUR:               X  
CONDITIONS TO AVOID:        NONE

SECTION VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

ABSORB SPILL WITH SAND OF FULLER'S EARTH, SWEEP UP AND PLACE IN AN APPROPRIATE CHEMICAL WASTE CONTAINER, FLUSH SPILL AREA WITH WATER. OBSERVE ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATION REGARDING DISPOSAL, SPILL, AND CLEANUP REMOVAL OR DISCHARGE.

WASTE DISPOSAL METHOD:

MATERIAL THAT CANNOT BE USED OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF AT AN APPROVED FACILITY IN ACCORDANCE WITH ANY APPLICABLE REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINER CLOSED WHEN NOT IN USE. DISPOSE OF CONTAINERS ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

OTHER PRECAUTIONS:

FOR INDUSTRIAL AND INSTITUTION USE ONLY. KEEP OUT OF REACH OF CHILDREN.

SECTION IX. CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR, WHERE CONDITIONS GENERATE AIRBORNE CONTAMINATION BY SPRAY OR MIST.

VENTILATION: GENERAL ROOM VENTILATION.

PROTECTIVE GLOVES: RUBBER

EYE PROTECTION: SAFETY GLASSES, GOGGLES OR FACESHIELD.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE

WORK/HYGIENIC PRACTICES:

THE RECOMMENDATIONS DESCRIBED IN THIS MSDS ARE PROVIDED AS GENERAL GUIDANCE FOR MINIMIZING EXPOSURE WHEN HANDLING THIS PRODUCT. BECAUSE USE CONDITIONS WILL VARY DEPENDING UPON CUSTOMER USE CONDITIONS, SPECIFIC USE SAFE HANDLING SHOULD BE DEVELOPED BY A PERSON KNOWLEDGEABLE OF THE INTENDED USE, CONDITIONS AND EQUIPMENT.

SECTION X. DOT HAZARDOUS INFORMATION

UN/NA: NA

CLASSIFICATION: NOT REGULATED  
OPER SHIPPING NAME: NA  
PHOTO CHEMICALLY REACTIVE? NO  
NON-PHOTO CHEMICALLY REACTIVE? NO  
C = NONE

SECTION XI. MISCELLANEOUS INFORMATION

SARA TITLE III SECTION 304 & 313: NA  
PROP 65: ND  
TSCA: ND

NOTICE

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NA - NOT APPLICABLE  
S - MAY BE ABSORBED THROUGH INTACT SKIN  
ND - NO DATA AVAILABLE