

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT

FILE NO.:

MSDS DATE: / /

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: S-LAND BM BLUE
 SYNONYMS:
 PRODUCT CODES: UNV07051, OFF82440, UNV08081, UNV07071, UNV17081, UNV18081
 MANUFACTURER: S-LAND CO.,LTD
 DIVISION:
 ADDRESS: RM305,SEEUN BLDG 909 HWAJUNG-DONG, DUKYANG-KU, KOYANG-CITY, KYUNGGI-DO,KOREA
 EMERGENCY PHONE: 82-31-966-2771
 CHEMTREC PHONE:
 OTHER CALLS:
 FAX PHONE: 82-31-966-2701
 CHEMICAL NAME:
 CHEMICAL FAMILY:
 CHEMICAL FORMULA:
 PRODUCT USE: PERMANENT MARKER PEN INDUSTRY
 PREPARED BY:
 SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	CAS NO.	% WT	% VOL	SARA 313 REPORTABLE
OSHA PEL-TWA:	64-17-5			
OSHA PEL STEL :	107-98-2			
OSHA PEL CEILING:	71-12-8			
ACGIH TLV-TWA:	100-51-6			
ACGIH TLV STEL:	36009-09-2			
ACGIH TLV CEILING:	65138-66-1			

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: MAY BE IRRITATING TO RESPIRATORY TRACT,SKIN AND EYES. THIS PRODUCT IS NOT RAPIDLY IGNITABLE. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING

ROUTES OF ENTRY:

POTENTIAL HEALTH EFFECTS

EYES:



SPECIAL FIRE FIGHTING PROCEDURES:

EXTINGUISHING MEDIA: DRY CHEMICAL, WATER SPRAY, FOAM, CO2 GASES OF CO2 AND OTHER HAZARDOUS OXIDES COULD BE GENERATED. SELF-CONTAINED BREATHING APPARATUS FOR FIGHTERS. MOVE CONTAINER FROM FIRE IF YOU CAN DO IT WITHOUT RISK. DO NOT SCATTER SPILLED MATERIAL WITH HIGH PRESSURE WATER STEAMS.

HMIS HAZARD CLASSIFICATION
HEALTH: FLAMMABILITY: REACTIVITY: PROTECTION:

NFPA HAZARD CLASSIFICATION
HEALTH: FLAMMABILITY: REACTIVITY: OTHER:

AUTOIGNITION TEMPERATURE:
F:
C:

METHOD USED:

FLASH POINT:
F:
C:

FLAMMABLE LIMITS IN AIR, UPPER:
(% BY VOLUME) LOWER:

SECTION 5: FIRE-FIGHTING MEASURES

SECTION 4 NOTES:

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

INHALATION: IF INHALED, MOVE TO FRESH AIR. PERFORM ARTIFICIAL RESPIRATION IF NECESSARY. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: IF SWALLOWED, DILUTE WITH WATER AND INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON.

SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFECTED SKIN WITH SOAP AND WATER. GET MEDICAL ATTENTION IMMEDIATELY.

EYES: FLUSH EYE WITH FLOWING WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS

SECTION 4: FIRST AID MEASURES

SECTION 3 NOTES:

CARCINOGENICITY
OSHA:
OTHER:
ACGIH:
NTP:
IARC:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

CHRONIC HEALTH HAZARDS:

ACUTE HEALTH HAZARDS:

INHALATION:

INGESTION:

SKIN:



PH AS SUPPLIED: 6.0-8.5
pH (Other):
BOILING POINT:
F:
C: 100

PHYSICAL STATE:
ODOR: ODOUR LIKE ALCOHOL
APPEARANCE: UNIFORM LIQUID

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SECTION 8 NOTES:

EXPOSURE GUIDELINES:

WORK HYGIENIC PRACTICES: RUBBER GLOVES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

SKIN PROTECTION: IMPERVIOUS CLOTHING

EYE PROTECTION: SAFETY GOGGLES

RESPIRATORY PROTECTION: LOCAL EXHAUST VENTILATION

VENTILATION :

ENGINEERING CONTROLS:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

SECTION 7 NOTES:

OTHER PRECAUTIONS:

HANDLING AND STORAGE: STORED IN COOL DRY PLACE, KEEP CONTAINER TIGHTLY CLOSED. DO NOT INHALE THE
SUBSTANCE AND AVOID CONTACT WITH THE SKIN OR EYES. WEAR PROTECTIVE CLOTHING WHEN HANDLING OPEN
CONTAINER; AVOID ENVIRONMENTAL POLLUTION BY HANDLING THE PRODUCT CAREFULLY. WASH THOROUGHLY AFTER
HANDLING. USE ONLY WITH ADEQUATE VENTILATION.

SECTION 7: HANDLING AND STORAGE

METHOD FOR CLEANING UP: SCOOP OR SWEEP INTO A CONTAINER FOR REUSE OR DISPOSAL. KEEP UNNECESSARY PERSON
AWAY.

PERSONAL PRECAUTION: CLEAN UP WITH APPROPRIATE PERSONAL EQUIPMENT(SEE SECTION 8) SCOOP OR SWEEP &
TRANSFER INTO A CLOSED CONTAINER. KEEP WASTE OUT OF SEWERS.

SECTION 6 NOTES:

ACCIDENTAL RELEASE MEASURES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

SECTION 5 NOTES:

HAZARDOUS DECOMPOSITION PRODUCTS:

UNUSUAL FIRE AND EXPLOSION HAZARDS:



SECTION 11: TOXICOLOGICAL INFORMATION

SECTION 10 NOTES:

CONDITIONS TO AVOID (POLYMERIZATION):

HAZARDOUS POLYMERIZATION:

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

INCOMPATIBILITY (MATERIAL TO AVOID):

CONDITIONS TO AVOID (STABILITY):

STABILITY: STABLE UNDER NORMAL CONDITION OF STORAGE AND USE

UNSTABLE

STABLE

SECTION 10: STABILITY AND REACTIVITY

SECTION 9 NOTES:

C:

F:

@

VISCOSITY:

MOLECULAR WEIGHT:

WITHOUT WATER: LBS/GAL
WITH WATER: LBS/GAL

VOLATILE ORGANIC COMPOUNDS (VOC):

C:

F:

BY WT/ BY VOL @

PERCENT VOLATILE:

PERCENT SOLIDS BY WEIGHT:

SOLUBILITY IN WATER: INSOLUBLE IN WATER

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (cont)

BASIS (=1):

EVAPORATION RATE:

C:

F:

@

SPECIFIC GRAVITY (H2O = 1):

C:

F:

@

VAPOR DENSITY (AIR = 1):

C:

F:

@

VAPOR PRESSURE (mmHg):

C:

F:

FREEZING POINT:

C:

F:

MELTING POINT: NO DATA AVAILABLE



TOXICOLOGICAL INFORMATION:
TOLERANCE LIMIT: 50(50)PPM, 205(200)PPM
ACTUAL ORAL TOXICITY: LD50(RAT); 5410MG/KG
SKIN IRRITATION/RABBIT/DRAIZE TEST: NO DATA AVAILABLE

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: NO DATA AVAILABLE

SECTION 12 NOTES: NO DATA AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: ENSURE THAT DISPOSAL IS IN COMPLIANCE WITH LOCAL, NATIONAL REGULATION
RCRA HAZARD CLASS:

SECTION 13: DISPOSAL CONSIDERATIONS (cont)

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: THIS INFORMATION IS FURNISHED WITHOUT WARRANTY EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE SLAND, THE DATA ON THIS SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN, S-LAND, ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THESE DATA.

PREPARATION INFORMATION:

DISCLAIMER: