

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY/ TRADE NAME: PREGAN DL

MANUFACTURER: KISSEL & WOLF, POB 1326, D6908 WIESLOCH, WEST GERMANY

IMPORTER: KIWO, INC.

ADDRESS: 1929 MARVIN CIRCLE, P.O. BOX 1009, SEABROOK, TX 77586

INFORMATION TELEPHONE NUMBER: 281-474-9777

HAZARDOUS INGREDIENTS	%RANGE	CAS NUMBER
DIMETHYL ACETAMIDE	75-95%	127-19-5
FATTY ALCOHOL ESTER SULFATE	1-21%	NOT AVAILABLE

BOILING POINT: 165°C VAPOR PRESSURE: <1.3 mm Hg

SOLUBILITY: MISCIBLE IN WATER DENSITY: 0.94 G/CM²

APPEARANCE AND ODOR: CLEAR PASTE, FISHY ODOR

PHYSICAL HAZARD DATA

COMPRESSED GAS: NO PYROPHORIC: NO OXIDIZER: NO

ORGANIC PEROXIDE: NO FLAMMABLE/COMBUSTIBLE: YES

FLASH POINT: (70°C) 158°F

EXTINGUISHING MEDIA: CO₂, DRY CHEMICAL, FOAM, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES: WEAR SCBA AND FULL PROTECTIVE EQUIPMENT, COOL FIRE EXPOSED CONTAINERS WITH WATER FOG OR SPRAY.

EXPLOSIVE: YES LEL: 0.7 % UEL: 22 % REACTIVITY/INCOMPATIBILITY: STRONG OXIDIZERS, ALKYL ALUMINUMS, CARBON TETRACHLORIDE, HALOGENATED COMPOUNDS WHEN IN CONTACT WITH IRON

HAZARDOUS DECOMPOSITION PRODUCTS: COMBUSTION MAY YIELD CO AND NITROGEN CONTAINING GASES.

SPECIAL STORAGE PRECAUTIONS: STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM HEAT OR SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS.

HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE: INHALATION OR SKIN CONTACT MAY CAUSE ABDOMINAL PAIN, ANOREXIA, NAUSEA, VOMITING, CONSTIPATION, DIARRHEA, FACIAL FLUSHING, ELEVATED BLOOD PRESSURE, LIVER DAMAGE.

CHRONIC EFFECTS OF OVEREXPOSURE: DIMETHYL ACETAMIDE HAS BEEN REPORTED TO CAUSE KIDNEY AND LIVER DAMAGE IN ANIMAL STUDIES. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: EXISTING DERMATITIS MAY BE AGGRAVATED. PERSONS WITH

KIDNEY OR LIVER DISEASE SHOULD NOT HAVE EXPOSURE TO THIS PRODUCT.

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN, INHALATION, ABSORBED THROUGH THE INTACT SKIN.

LISTED CARCINOGEN: NO

EXPOSURE LIMITS:

N,N,DIMETHYL ACETAMIDE	OSHA PEL:	10 PPM
	ACGIH TLV:	10 PPM SKIN

OTHER: FIRST AID: EYES-FLUSH WITH WATER 15 MINUTES THEN MEDICAL TREATMENT REQUIRED. SKIN-WASH WITH SOAP AND WATER, REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE RE-USE. INHALATION-REMOVE TO FRESH AIR, GIVE ARTIFICIAL RESPIRATION IF NEEDED. INGESTION-INDUCE VOMITING, GET IMMEDIATE MEDICAL ATTENTION.

SAFE HANDLING PROCEDURES

HYGIENIC PRACTICES: AVOID SKIN CONTACT, DO NOT WEAR CONTAMINATED CLOTHING, WASH WELL AFTER USE.

SPECIAL PROTECTIVE MEASURES DURING REPAIR/MAINTENANCE OF CONTAMINATED EQUIPMENT: ADDITIONAL PROTECTIVE CLOTHING AND/OR RESPIRATORY PROTECTION MAY BE NEEDED TO PREVENT OVER-EXPOSURE.

SPILL HANDLING/CLEAN-UP: REMOVE ALL SOURCES OF IGNITION, VENTILATE, CONTAIN SPILL, DON APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT. ABSORB, PICK UP AND PLACE IN CONTAINERS FOR DISPOSAL. KEEP ALL SOURCES OF IGNITION AWAY UNTIL ALL VAPORS HAVE DISSIPATED.

CONTROL MEASURES

RECOMMENDED ENGINEERING CONTROLS: LOCAL EXHAUST AS NEEDED TO CONTROL EXPOSURE TO BELOW TLVS.

RECOMMENDED WORK PRACTICES: KEEP CONTAINERS CLOSED WHEN NOT IN USE. NO SMOKING OR IGNITION SOURCES IN USE AREAS.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: RESPIRATOR SELECTION DEPENDS ON CONTAMINANT TYPES AND FORM. IF NEEDED, CONSULT AN INDUSTRIAL HYGIENIST FOR ASSISTANCE IN SELECTION AND USE.

GLOVES: IMPERVIOUS GLOVES REQUIRED IF SKIN CONTACT IS POSSIBLE.

EYE PROTECTION: CHEMICAL SAFETY GOGGLES

OTHER: EYE WASH, WASHING FACILITIES, IMPERVIOUS APRON OR OTHER CLOTHING AS NEEDED TO PREVENT SKIN CONTACT OR CLOTHING CONTAMINATION.

COMMENTS: FOR INDUSTRIAL/COMMERCIAL USE ONLY

REGULATORY STATUS

TSCA - ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY

THE FOLLOWING CHEMICAL INGREDIENTS ARE REGULATED UNDER PROPOSITION 65 OF THE STATE OF CALIFORNIA

NONE

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372 (SARA 313 - TOXIC CHEMICAL RELEASE REPORTING.)

NONE

VOC CONTENT 835 GRAMS/LITER 7.36 LBS/GALLON

DATE PREPARED/UPDATED: MAY 3, 2001
PREPARED BY: CLARK KING, EXEC. V.P., KIWO, INC.