

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY/TRADE NAME: PREGAN C4

MANUFACTURER: KIWO, INC., 1929 MARVIN CIRCLE, SEABROOK, TX 77586

INFORMATION TELEPHONE NUMBER: 281-474-9777

HAZARD DATA SECTION

HAZARDOUS INGREDIENTS	%RANGE	CAS #
CYCLOHEXANONE	5-25%	108-94-1
METHOXYPROPYLACETATE	14-34%	108-65-6
NAPHTHA SOLVENT	1-21%	64742-95-6
DIETHYLENE GLYCOL	1-21%	111-46-6
DIACETONE ALCOHOL	5-25%	123-42-2
a-HYDROXY TOLUENE	5-25%	100-51-6

BOILING POINT: 300°F VAPOR PRESSURE: <4 MM HG

SOLUBILITY: PARTIALLY SOLUBLE IN WATER

SPECIFIC GRAVITY: 0.98

APPEARANCE AND ODOR: RED LIQUID, CYCLOHEXANONE ODOR

PHYSICAL HAZARD DATA

COMPRESSED GAS: NO PYROPHORIC: NO

OXIDIZER: NO ORGANIC PEROXIDE: NO

FLAMMABLE/COMBUSTIBLE: YES FLASH POINT: 46°C

EXTINGUISHING MEDIA: DRY CHEMICAL, CO₂, WATER SPRAY, ALCOHOL FOAM.

SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD USE SCBA FOR FIGHTING FIRES IN ENCLOSED AREAS, KEEP EXPOSED CONTAINERS COOL, WEAR FULL PROTECTIVE CLOTHING.

EXPLOSIVE: YES LEL: 1.1 UEL: 9.4

REACTIVITY/INCOMPATIBILITY: STRONG OXIDIZERS, KEEP AWAY FROM HEAT, FLAME, SPARKS, HOT SURFACES.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, VARIOUS HYDROCARBONSSPECIAL STORAGE PRECAUTIONS: KEEP TIGHTLY CLOSED IN A COOL, WELL VENTILATED AREA. STORE AS FLAMMABLE LIQUID, DO NOT EXPOSE TO HEAT.

HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE: IRRITATING TO THE EYES, SKIN, AND UPPER RESPIRATORY SYSTEM. CAUSES CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, DROWSINESS. HIGH CONCENTRATIONS CAN CAUSE UNCONCIOUSNESS AND DEATH, CAN BE ABSORBED THROUGH SKIN IN TOXIC AMOUNTS IF EXPOSURE IS EXTENSIVE AND PROLONGED.

CHRONIC EFFECTS OF OVEREXPOSURE: REPEATED EXPOSURE CAN CAUSE PHOTSENSITIVITY. ANIMAL STUDIES WITH PROPYLENE GLYCOL MONOMETHYL ETHER HAVE SHOWN TO CAUSE SLIGHT INCREASES IN LIVER WEIGHT.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: EXISTING DERMATITIS

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN, INHALATION

LISTED CARCINOGEN: NO

EXPOSURE LIMITS	OSHA PEL	ACGIH TLV
NAPHTHA	NONE ESTABLISHED	NONE ESTABLISHED
CYCLOHEXANONE	50 PPM	25 PPM
METHOXYPROPYL ACETATE	NONE ESTABLISHED	NONE ESTABLISHED
DIETHYLENE GLYCOL	NONE	NONE
DIACETONE ALCOHOL	50 PPM	50 PPM

FIRST AID: EYES -FLUSH WITH WATER FOR 15 MINUTES, SEE PHYSICIAN. SKIN-REMOVE ALL CONTAMINATED CLOTHING, WASH EXPOSED SKIN WELL WITH SOAP AND WATER, LAUNDRY CONTAMINATED CLOTHING BEFORE RE-USE. SEE A PHYSICIAN IF IRRITATION PERSISTS. INHALATION- REMOVE VICTIM TO FRESH AIR, OBTAIN MEDICAL ASSISTANCE. INGESTION-DO NOT INDUCE VOMITING, GET IMMEDIATE MEDICAL ATTENTION.

SAFE HANDLING PROCEDURES

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

SPECIAL PROTECTIVE MEASURES FOR REPAIR/MAINTENANCE OF CONTAMINATED EQUIPMENT: USE FULL PROTECTIVE EQUIPMENT AND FOLLOW ALL MSDS PRECAUTIONS.

SPILL HANDLING/CLEAN-UP: REMOVE ALL SOURCES OF IGNITION, STOP LEAK IF YOU CAN DO WITHOUT RISK. USE APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING SCBA WHERE NEEDED. ABSORB SPILL WITH NON-COMBUSTIBLE ABSORBANT, PLACE IN CONTAINERS FOR DISPOSAL. KEEP IGNITION SOURCES AWAY UNTIL ALL VAPORS HAVE DISSIPATED.

CONTROL MEASURES

RECOMMENDED ENGINEERING CONTROLS: USE LOCAL EXHAUST OR GENERAL VENTILATION TO KEEP EXPOSURE LEVELS BELOW LIMITS.

RECOMMENDED WORK PRACTICES: AVOID ALL SKIN CONTACT, KEEP CONTAINERS CLOSED WHEN NOT IN USE, NO SMOKING, KEEP AWAY FROM SOURCES OF IGNITION.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: IF EXPOSURE LIMITS ARE EXCEEDED, RESPIRATORY PROTECTION MAY BE NEEDED. EQUIPMENT SELECTION DEPENDS ON CONTAMINANT TYPE, CONCENTRATION, AND FORM. CONSULT AN INDUSTRIAL HYGIENIST FOR ASSISTANCE IN SELECTION AND USE.

GLOVES: PVC, NITRILE, OR OTHER IMPERVIOUS GLOVES AS NEEDED TO PREVENT SKIN CONTACT.

EYE PROTECTION: SAFETY GOGGLES RECOMMENDED

OTHER: EYE WASH, IMPERVIOUS APRON IF NEEDED.

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 882 G/LITER 7.34 LBS/GALLON

DATE PREPARED/UPDATED: FEBRUARY 13, 2003
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