



ISOICHEM COLORS & CHEMICALS S.A. DE C.V.

1 OF 3

MATERIAL SAFETY DATA SHEET

TRADE NAME: 917-ISOTEX LSA-4
SYNONYMS: PROPRIETARY BLEND OF ALKALIS AND WATER

COMPANY INFORMATION:
ISOICHEM COLORS & CHEMICALS S.A. de C.V.
ZONA LIBRE TSS,
CARRETERA TICAMAYA, COL. LOS PRADOS, N.E.
12 Y 13 CALLE, BLVD. PRINCIPAL
SAN PEDRO SULA, HONDURAS, C.A.

TELEPHONE: (504) 552-7589
EMERGENCY TELEPHONE: (504) 506-8837

SECTION I – HAZARDOUS INGREDIENTS

CAS NO.	HAZARDOUS COMPONENTS	PELS	OSHA	ACGIH
1310-58-3	POTASSIUM HYDROXIDE	2mg/mg3	2mg/mg3	2mg/mg3
584-08-7	POTASSIUM CARBONATE	NOT EST	NOT EST	NOT EST

D.O.T. / LABELING REQUIREMENTS

CORROSIVE LABEL: UN 3266, CLASS 8
PACKAGING GROUP: EMERGENCY RESPONSE GUIDE #154 (ERG), CORROSIVE LIQUID
HMIS LABEL: 2-0-0-D

SECTION II – PHYSICAL DATA

APPEARANCE AND ODOR: CLEAR WATER WHITE LIQUID, ODORLESS
BOILING POINT: >212F
VAPOR PRESSURE: NOT AVAILABLE
VAPOR DENSITY: NOT AVAILABLE
SOLUBILITY IN WATER: COMPLETE IN ALL PROPORTIONS
SPECIFIC GRAVITY: 1.380
REACTIVITY IN WATER: NO DATA

SECTION III – FIRE, EXPLOSION AND REACTIVITY

FLASH POINT: N/A
FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER: N/A UPPER: N/A
SPECIAL FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED.
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.
STABILITY: STABLE UNDER NORMAL CONDITIONS.
HAZARDOUS DECOMPOSITION PRODUCTS: N/A.
HAZARDOUS POLYMERIZATION: NO DATA.

SECTION IV – HEALTH HAZARD INFORMATION

POTENTIAL HEALTH EFFECTS
SHORT TERM EXPOSURE (ACUTE):
INHALATION: AIRBORNE CONTAMINANTS SUCH AS MIST CAN PRODUCE BURNS OF THE RESPIRATORY TRACT.
EYES: CONTACT CAN CAUSE SEVERE DAMAGE INCLUDING BURNS AND BLINDNESS. THE SEVERITY OF THE EFFECTS DEPEND ON CONCENTRATION AND HOW SOON AFTER EXPOSURE THE EYES ARE WASHED.
SKIN: CORROSIVE.
NOTE THAT IRRITATION MAY FOLLOW AN INITIAL LATENCY (DELAY BETWEEN THE TIME THAT THE EXPOSURE OCCURS AND WHEN THE SENSE OF IRRITATION STARTS). THE LATENT PERIOD CAN VARY AS MUCH AS HOURS FOR A DILUTE SOLUTION (0.04%) TO MINUTES WITH MORE CONCENTRATED SOLUTIONS (25%-50%). PROLONGED OR REPEATED CONTACT, EVEN TO DILUTE CONCENTRATIONS, CAN CAUSE A HIGH DEGREE OF TISSUE DESTRUCTION.
INGESTION: CORROSIVE.

SEVERE BURNS AND COMPLETE PERFORATION OF MUCUOUS MEMBRANES OF MOUTH, THROAT AND STOMACH.

TOXICOLOGICAL DATA:

THIS MATERIAL IS CORROSIVE TO ALL HUMAN TISSUE.

ORAL (LD50) ACUTE >1000mg/Kg (RAT)
 DERMAL (LD50) >1000 mg/Kg (RABBIT)
 CARCINOGENIC DESIGNATION: NONE.

REPEATED EXPOSURE (CHRONIC):

NO KNOWN CHRONIC EFFECTS.

SYNERGISTIC MATERIALS: NONE KNOWN.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

SECTION V – EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, HOLDING EYELIDS APART TO ENSURE FLUSHING OF THE ENTIRE SURFACE. WASHING WITHIN ONE MINUTE IS ESSENTIAL TO ACHIEVE MAXIMUM EFFECTIVENESS. SEEK MEDICAL ATTENTION.

SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF SOAP AND WATER WHILE REMOVING CONTAMINATED CLOTHING. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION SHOULD IRRITATION DEVELOP.

INHALATION: NO ADVERSE EFFECTS EXPECTED UNDER NORMAL WORKING CONDITIONS. SHOULD SYMPTOMS OCCUR, REMOVE VICTIM TO FRESH AIR.

INGESTION: DO NOT INDUCE VOMITING. IF VOMITING SHOULD OCCUR SPONTANEOUSLY, KEEP AIRWAY CLEAR, PROVIDE WATER TO DRINK AND ICE TO COOL THROAT. GET PROMPT MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONCIOUS PERSON.

NOTES TO PHYSICIAN: NONE.

CARCINOGEN? POSSIBLE CARCINOGEN? NTP: NO IRC: NO OSHA: NO

SECTION VI – SPECIAL PRECAUTIONS

HANDLING AND STORAGE: KEEP CONTAINER CLOSED. FOR INDUSTRIAL USE ONLY. KEEP FROM OPEN FLAME.

SHIPPING: SHIP IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

PRECAUTIONARY STATEMENTS:

WARNING!! CAUSES IRRITATION

HARMFUL IF SWALLOWED OR INHALED.
 AVOID CONTACT WITH EYES, SKIN AND CLOTHING
 AVOID BREATHING MIST OR VAPORS
 WEAR CHEMICAL SPLASH GOGGLES, GLOVES AND PROTECTIVE CLOTHING WHEN HANDLING.
 USE WITH ADEQUATE VENTILATION AND EMPLOY RESPIRATORY PROTECTION WHERE MIST OR VAPOR MAY BE GENERATED
 WASH THOROUGHLY AFTER HANDLING
 DO NOT TAKE INTERNALLY
 FOR INDUSTRIAL USE ONLY

SECTION VII – SPILL AND DISPOSAL PROCEDURES

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

CONTAIN LIQUIDS AND PREVENT DISCHARGES TO STREAMS OR SEWERS, CONTROL OR STOP THE LOSS OF VOLATILE MATERIALS TO THE ATMOSPHERE. LARGE LEAKS MAY REQUIRE ENVIRONMENTAL CONSIDERATION AND POSSIBLE EVACUATION. DO NOT APPLY WATER TO THE LEAK. SPILLS OR RELEASES SHOULD BE REPORTED, IF REQUIRED, TO THE APPROPRIATE LOCAL, STATE AND FEDERAL AGENCIES. CONTAIN SPILL WITH DIKE TO PREVENT ENTRY INTO SEWERS AND WATERWAYS.

CAUTION: THIS PRODUCT MAY REACT STRONGLY WITH ACIDS AND WATER.
 NEVER FLUSH TO SEWER!

METHOD FOR CLEANING UP: DRY MATERIAL CAN BE SHOVELED UP, LIQUID MATERIAL CAN BE REMOVED WITH A VACUUM TRUCK. NEUTRALIZE REMAINING TRACES WITH ANY DILUTE INORGANIC ACID (HYDROCHLORIC, SULFURIC OR ACETIC ACID). FLUSH SPILL AREA WITH WATER FOLLOWED BY A LIBERAL COVERING OF SODIUM CARBONATE. ALL CLEAN-UP MATERIAL SHOULD BE REMOVED FOR PROPER TREATMENT OR DISPOSAL. SPILLS ON OTHER THAN PAVEMENT (eg. DIRT OR SAND) MAY BE HANDLED BY REMOVING THE AFFECTED SOIL AND PLACING IN APPROVED CONTAINERS.

ECOLOGICAL INFORMATION:

1. ACUTE ECOTOXICITY:
 - CRUSTACEANS, DAPHNIA MAGNA, EC50, 48 HOURS >100 mg/l
 - FISHES, LEPORMIS MACROCHIRUS, LC50, 96 HOURS >150 mg/l
 - ALGAE, NITZSCHERIA LINEARIS, EC50, 5 DAYS >100 mg/l
2. CHRONIC ECOTOXICITY: PHYTOPLANKTON, EC, BIOMASS, 7 DAYS > 10 mg/l
3. MOBILITY: CONSIDERABLE SOLUBILITY AND MOBILITY.

4. DEGRADATION:
ABIOTIC:
 - WATER, HYDROLYSIS, DEGRADATION PRODUCTS: CARBONATE
 - SOIL-RESULT: NOT APPLICABLE (INORGANIC COMPOUND)BIOTIC: NOT APPLICABLE (INORGANIC COMPOUND).
5. POTENTIAL FOR BIOACCUMULATION: LOG Po/w: RESULT – NOT APPLICABLE (INORGANIC COMPOUND).
6. OTHER ADVERSE EFFECTS/ COMMENTS: OBSERVED EFFECTS ARE RELATED TO ALKALINE PROPERTIES OF PRODUCT. PRODUCT IS NOT SIGNIFICANTLY HAZARDOUS FOR THE ENVIRONMENT.

SECTION VIII – EMPLOYEE PROTECTION

VENTILATION REQUIREMENTS: LOCAL EXHAUST VENTILATION RECOMMENDED.
PERSONAL PROTECTIVE EQUIPMENT:
EYE PROTECTION: CHEMICAL SPLASH GOGGLES OR FACE SHIELD.
SKIN PROTECTION: CHEMICAL RESISTANT RUBBER OR VYNIL GLOVES AND APRON.
RESPIRATORY PROTECTION: NIOSH/MSHA APPROVED RESPIRATOR AS NEEDED.
OTHER REQUIRED EQUIPMENT: STANDARD WORK CLOTHING AND WORK SHOES. EYEWASH AND SAFETY SHOWERS SHOULD BE IN PROXIMITY OF WORK PLACE.

SECTION IX – SPECIAL PRECAUTIONS OR OTHER COMMENTS

DISPOSE OF PRODUCT BY INCINERATION IN AN APPROVED CHEMICAL WASTE FACILITY (OR BY OTHER APPROVED METHODS) IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. AVOID LANFILLING LIQUIDS. SINCE EMPTIED CONTAINER RETAINS PRODUCT RESIDUE ALL LABELED PRECAUTIONS MUST BE OBSERVED.

SECTION X – OTHER REGULATORY CONTROLS

TRANSPORT INFORMATION:
DOT PROPER SHIPPING NAME: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,
CLASS 8, UN3266, PGII, ERG#154
(POTASSIUM HYDROXIDE)

REGULATORY INFORMATION:
NOTICE: THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 (40 CFR PART 372).

SARA SECTION 311/312: ACUTE AND CHRONIC HEALTH HAZARD.
SECTION 304: REPORTING IF ABOVE 8334 LBS.
TSCA: COMPONENTS FOUND IN TSCA INVENTORY.

INFORMATION PREPARED MAY 19, 2008 BY TECHNICAL DEPARTMENT.

FOR FURTHER INFORMATION CALL ISOICHEM COLORS AND CHEMICALS S.A. de C.V., SAN PEDRO SULA, HONDURAS AT (504) 552-7589 OR FAX AT (504) 553-0728. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS MSDS SHEET ARE BASED UPON THE DATA BELIEVED TO BE CORRECT. NO GUARANTEE IS GIVEN, IMPLIED, OR EXPRESSED FOR THIS DATA.