

MATERIAL SAFETY DATA SHEET

PRODUCT NAME - EDC

MANUFACTURER –

FORMOSA PLASTICS CORPORATION

FORMOSA INDUSTRIAL PARK NO.1, MAILIAO, YUNLIN COUNTY, TAIWAN R.O.C.

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--SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMMON NAME: EDC

CODE: 0022981 0022980 0022981B

SUPPLIER:

IN CASE OF EMERGENCY:

CALL CHEMTREC: 800.424.9300

OUTSIDE US: 202.483.7616

PRINT DATE: 8/20/2001

VALIDATION DATE: 8/20/2001

MSDS#: 258

SYNONYMS: 1-ETHYL-3-(DIMETHYLAMINOPROPYL)CARBODIIMIDE HYDROCHLORIDE

MANUFACTURER:

-----SECTION 2. COMPOSITION AND INFORMATION ON -----

HAZARDOUS (OSHA) INGREDIENTS

NAME	CAS #	% BY WEIGHT	EXPOSURE LIMITS
1) EDC	25952-53-8	98-100	NOT AVAILABLE.

-----SECTION 3. HAZARDS IDENTIFICATION -----

REVIEW THE MOST CURRENT AND APPROVED INSTITUTIONAL GUIDELINE, PROTOCOL, STANDARD OPERATING PROCEDURE(S) AND MSDS(S) FOR THE PROPER HANDLING OF INSTITUTIONAL MATERIALS/EQUIPMENT ASSOCIATED WITH THE USE OF THIS PIERCE

PRODUCT.

EMERGENCY OVERVIEW:

CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING DUST. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

ROUTES OF ENTRY:

EYE CONTACT.

INHALATION.

INGESTION.

POTENTIAL ACUTE HEALTH EFFECTS:

NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATABASE REGARDING THE OTHER TOXIC EFFECTS OF THIS MATERIAL FOR HUMANS.

CARCINOGENIC EFFECTS DATA:

CARCINOGENIC EFFECTS: NOT AVAILABLE.

MUTAGENIC EFFECTS: NOT AVAILABLE.

TERATOGENIC EFFECTS: NOT AVAILABLE.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

REPEATED OR PROLONGED EXPOSURE IS NOT KNOWN TO AGGRAVATE MEDICAL CONDITION.

EU REGULATIONS:

R36/37/38: IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

S26:

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

-----SECTION 4. FIRST AID MEASURES -----

SKIN: WASH CONTAMINATED SKIN WITH SOAP AND WATER.

EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. SEEK MEDICAL ATTENTION.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. SEEK MEDICAL ATTENTION.

-----SECTION 5. FIRE FIGHTING MEASURES -----

FLAMMABILITY OF THE PRODUCT: MAY BE COMBUSTIBLE AT HIGH TEMPERATURE.

FLASH POINTS: NOT AVAILABLE.

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: NOT AVAILABLE.

FIRE FIGHTING MEDIA AND INSTRUCTIONS:

SMALL FIRE: USE DRY CHEMICAL POWDER.

LARGE FIRE: USE WATER SPRAY, FOG OR FOAM. DO NOT USE WATER JET.

PROTECTIVE CLOTHING (FIRE):

BE SURE TO USE AN APPROVED/CERTIFIED RESPIRATOR OR EQUIVALENT.

-----SECTION 6. ACCIDENTAL RELEASE MEASURES -----

SMALL SPILL AND LEAK:

USE APPROPRIATE TOOLS TO PUT THE SPILLED SOLID IN A CONVENIENT WASTE DISPOSAL CONTAINER. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND DISPOSE OF ACCORDING TO LOCAL AND REGIONAL AUTHORITY REQUIREMENTS.

LARGE SPILL AND LEAK:

USE A SHOVEL TO PUT THE MATERIAL INTO A CONVENIENT WASTE DISPOSAL CONTAINER FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND ALLOW TO EVACUATE THROUGH THE SANITARY SYSTEM.

-----SECTION 7. HANDLING AND STORAGE -----

HANDLING:

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID BREATHING DUST. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

STORAGE:

KEEP CONTAINER TIGHTLY CLOSED. KEEP CONTAINER IN A COOL, WELL-VENTILATED AREA.

-----SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION -----

ENGINEERING CONTROLS:

USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO KEEP AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. IF USER OPERATIONS GENERATE DUST, FUME OR MIST, USE VENTILATION TO KEEP EXPOSURE TO AIRBORNE CONTAMINANTS BELOW THE EXPOSURE LIMIT.

PERSONAL PROTECTION:

EYES: SPLASH GOGGLES.

BODY: LAB COAT.

RESPIRATORY:

DUST RESPIRATOR. BE SURE TO USE AN APPROVED/CERTIFIED RESPIRATOR OR EQUIVALENT.

HANDS: GLOVES

PROTECTIVE CLOTHING (PICTOGRAMS):

SPLASH GOGGLES

LAB COAT

DUST RESPIRATOR

GLOVES

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS.

-----SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES -----

PHYSICAL STATE AND APPEARANCE: SOLID. (CRYSTALLINE SOLID)

ODOR: NOT AVAILABLE.

TASTE: NOT AVAILABLE.

COLOR: WHITE.

MOLECULAR WEIGHT: 188.56 G/MOLE

MOLECULAR FORMULA: C₆H₁₇N₃HCl

BOILING/CONDENSATION POINT: >250 DEG. C (482 DEG. F)

MELTING/FREEZING POINT: 111 DEG. C (231.8 DEG. F)

VAPOR PRESSURE: <1

VAPOR DENSITY: >1 (AIR = 1)

DISPERSION PROPERTIES: SEE SOLUBILITY IN WATER.

SOLUBILITY: PARTIALLY SOLUBLE IN COLD WATER, HOT WATER.

-----SECTION 10. STABILITY AND REACTIVITY -----

STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES:

REACTIVE WITH OXIDIZING AGENTS, ACIDS, MOISTURE.

HAZARDOUS DECOMPOSITION PRODUCTS: NOT AVAILABLE.

-----SECTION 11. TOXICOLOGICAL INFORMATION -----

OTHER TOXIC EFFECTS ON HUMANS:

HAZARDOUS IN CASE OF EYE CONTACT (IRRITANT), OF INGESTION, OF INHALATION (LUNG IRRITANT).

-----SECTION 12. ECOLOGICAL INFORMATION -----

TOXICITY OF THE PRODUCTS OF BIODEGRADATION:

THE PRODUCT ITSELF AND ITS PRODUCTS OF DEGRADATION ARE NOT TOXIC.

-----SECTION 13. DISPOSAL CONSIDERATIONS -----

WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

WASTE STREAM: NOT AVAILABLE.

CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.

-----**SECTION 14. TRANSPORT INFORMATION**-----

CONTACT PIERCE FOR ALL TRANSPORT INFORMATION.

-----**SECTION 15. REGULATORY INFORMATION**-----

HCS CLASSIFICATION CLASS: IRRITATING SUBSTANCE.

U.S. FEDERAL REGULATIONS:

TSCA 8(B) INVENTORY: EDC

SARA 302/304/311/312 EXTREMELY HAZARDOUS SUBSTANCES: NO PRODUCTS WERE FOUND

SARA 302/304 EMERGENCY PLANNING AND NOTIFICATION: NO PRODUCTS WERE FOUND.

SARA 302/304/311/312 HAZARDOUS CHEMICALS: NO PRODUCTS WERE FOUND.

SARA 311/312 MSDS DISTRIBUTION - CHEMICAL INVENTORY - HAZARD IDENTIFICATION

NO PRODUCTS WERE FOUND.

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:

NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 ACCIDENTAL RELEASE PREVENTION:

NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED FLAMMABLE SUBSTANCES:

NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND.

WHMIS (CANADA) CLASS D-1A:

MATERIAL CAUSING IMMEDIATE AND SERIOUS TOXIC EFFECTS (VERY TOXIC). NO PRODUCTS WERE FOUND.

INTERNATIONAL REGULATIONS:

EINECS: NOT AVAILABLE.

DSCL (EEC):

R36/37/38: IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

S36: WEAR SUITABLE PROTECTIVE CLOTHING

S38:

IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY PROTECTION.

INTERNATIONAL LISTS: NO PRODUCTS WERE FOUND.

STATE REGULATIONS: NO PRODUCTS WERE FOUND.

CALIFORNIA PROP. 65: NO PRODUCTS WERE FOUND.

-----**SECTION 16. OTHER INFORMATION**-----

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.):

HEALTH 1

FIRE HAZARD 1

REACTIVITY 2

PERSONAL PROTECTION E

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

HEALTH 1

FIRE HAZARD 1

REACTIVITY 2

SPECIFIC HAZARD

VALIDATED BY PIERCE ADMINISTRATION ON:

VERIFIED BY: PIERCE ADMINISTRATION.

PRINTED:

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