

2010

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

TRADE NAME IDENTITY: ROYSON # 53-NF

DATE: January 1, 2010

MANUFACTURERS NAME: ROYSON ENGINEERING COMPANY

100 NORTH PENN STREET

HATBORO, PA 19040

EMERGENCY TELEPHONE NUMBER: (215)675-2800

CHEMICAL NAME: NOT APPLICABLE FOR THIS MIXTURE

SYNONYMS: NONE

CHEMICAL FAMILY: ALKALINE METALFINISHING DETERGENT AND LUBRICANT

APPEARANCE AND ODOR: CLEAR, PALE AMBER LIQUID - FAINT PLEASANT ODOR

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES: NONE

PHYSICAL DATA

BOILING POINT, F.: 173, MINIMUM

VAPOR PRESSURE, mm Hg: NOT ESTABLISHED

VAPOR DENSITY (AIR = 1): NOT ESTABLISHED

SPECIFIC GRAVITY (WATER = 1): 1.00

EVAPORATION RATE (TOLUENE = 1): LESS THAN 1

SOLUBILITY IN WATER: COMPLETE

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE

FLAMMABLE LIMITS IN AIR: LOWER:NOT APPLICABLE. UPPER:NOT APPLICABLE

EXTINGUISHING MEDIA: NOT APPLICABLE

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NONE ESTABLISHED: 3 PPM (INHALATION) RECOMMENDED

EFFECTS OF OVEREXPOSURE: PRODUCT AND SOLUTIONS OF PRODUCT ARE IRRITATING TO EYES, AND MAY BE IRRITATING TO MUCOUS MEMBRANES, SKIN AND DIGESTIVE TRACT. MISTS, IF INHALED, MAY BE IRRITATING TO LUNGS.

ACUTE EFFECTS:

EYE CONTACT: CAUSES SEVERE IRRITATION.

SKIN CONTACT: MAY CAUSE IRRITATION UPON PROLONGED OR REPEATED CONTACT. MIST FROM SOLUTIONS MAY CAUSE DERMATITIS.

INGESTION: MAY CAUSE IRRITATION AND NAUSEA.

INHALATION: INHALATION OF MISTS CAUSES IRRITATION. PROLONGED OR REPEATED INHALATION OF VAPORS MAY PRODUCE GIDDINESS, DIZZINESS, HEADACHE, OR NAUSEA.

CHRONIC EFFECTS: LONG TERM EXPOSURE TO ETHANOL MAY CAUSE LIVER

AND KIDNEY DAMAGE.

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HAZARDOUS COMPONENTS

CHEMICAL NAME: DIETHANOLAMINE
SYNONYMS: NOT APPLICABLE
PRIMARY ROUTES OF ENTRY: EYE, SKIN, INHALATION
TYPE OF HAZARD: IRRITANT
OSHA PERMISSIBLE EXPOSURE LIMIT (TIME WEIGHTED AVERAGE, 8 HOUR DAY): NO LIMIT ESTABLISHED
ACGIH TLV (TIME WEIGHTED AVERAGE, 8 HOUR DAY): 3 PPM (INHALATION)

CHEMICAL NAME: ETHYL ALCOHOL
SYNONYMS: ETHANOL; GRAIN ALCOHOL
PRIMARY ROUTES OF ENTRY: INHALATION
TYPE OF HAZARD: FLAMMABLE LIQUID; HEPATOTOXIN; NEUROTOXIN; NEPHROTOXIN
OSHA PERMISSIBLE EXPOSURE LIMIT (TIME WEIGHTED AVERAGE, 8 HOUR DAY): 1000 PPM (INHALATION)
ACGIH TLV (TIME WEIGHTED AVERAGE, 8 HOUR DAY): 1000 PPM (INHALATION)

TOXIC CHEMICAL RELEASE REPORTING

THE FOLLOWING CHEMICALS IN THIS PRODUCT ARE SUBJECT TO REPORTING UNDER SECTION 313 OF SARA TITLE III.

| <u>CHEMICAL</u> | <u>CAS NUMBER</u> | <u>MAXIMUM CONCENTRATION PERCENT BY WEIGHT</u> |
|-----------------|-------------------|--|
| DIETHANOLAMINE | 111-42-2 | 10 |

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH WITH CLEAR WATER FOR AT LEAST 15 MINUTES, WITH EYELIDS OPEN. CALL PHYSICIAN IF IRRITATION PERSISTS.

SKIN: REMOVE CONTAMINATING CLOTHING. FLUSH AFFECTED AREA THOROUGHLY WITH CLEAR WATER.

INGESTION: IF PATIENT IS CONSCIOUS, ADMINISTER FRUIT JUICE OR WATER. INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE TO FRESH AIR, NO OTHER FIRST AID USUALLY REQUIRED. CALL PHYSICIAN IN CASES OF SEVERE OVEREXPOSURE. GIVE OXYGEN OR ARTIFICIAL RESPIRATION, IF INDICATED

REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: AVOID CONTACT WITH OXIDIZING AGENTS AND ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

POLYMERIZATION POTENTIAL: NOT PRESENT

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

VENTILATE AREA. USE TRAINED PERSONNEL EQUIPPED WITH APPROPRIATE EYE, RESPIRATORY AND SKIN PROTECTION (SEE SPECIAL PROTECTION INFORMATION BELOW). CONTAIN SPILLAGE AND TRANSFER TO APPROVED SALVAGE CONTAINERS. FLUSH AREA WITH WATER. AVOID SPLASHING OR MISTING. DRAINAGE MUST HAVE RETENTION BASINS FOR NEUTRALIZATION BEFORE DISCHARGE.

WASTE DISPOSAL METHOD:

ADJUST pH OF SOLUTIONS TO BETWEEN 6.0 AND 8.0, RELEASE ONLY AFTER ASSURING COMPLIANCE WITH ALL APPLICABLE DISPOSAL REGULATIONS.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NONE REQUIRED UNDER MOST CONDITIONS. USE WITH ADEQUATE VENTILATION. NIOSH APPROVED PARTICULATE RESPIRATOR (DUST/MIST) IF PROCESS OR HANDLING OF PRODUCT GENERATES MISTS OR SPRAY IN WORK AREA. CANISTER RESPIRATOR OR SELF CONTAINED BREATHING APPARATUS WHERE HIGH VAPOR CONCENTRATIONS EXIST. REFER TO 29 CFR 1910.134 TO ASSURE COMPLIANCE.

VENTILATION: PROVIDE ADEQUATE VENTILATION TO MEET TLV REQUIREMENTS.

PROTECTIVE GLOVES: NONE REQUIRED. RUBBER OR PLASTIC RECOMMENDED WHEN HANDLING CONCENTRATE.

EYE PROTECTION: CHEMICAL SPLASH GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: RUBBER OR PLASTIC OUTER GARMENT WHERE SATURATION OF CLOTHING IS POSSIBLE. EYE WASH STATION AND SAFETY SHOWER. EQUIPMENT MUST BE IN ACCORDANCE WITH 29 CFR 1910.132 AND 29 CFR 1910.133.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

STORE INDOORS IN DRY, COOL AREA. AVOID FREEZING. KEEP CONTAINER SEALED. AVOID CONTACT WITH SKIN AND WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING MISTS OR VAPORS. ABUNDANT WATER MUST BE AVAILABLE IN HANDLING AREAS.

OTHER PRECAUTIONS:

USE WITH ADEQUATE VENTILATION

DO NOT PERMIT EMPLOYEES TO HANDLE PRODUCT WITHOUT ADVANCE TRAINING AND PROPER PROTECTIVE EQUIPMENT. READ MATERIAL SAFETY DATA SHEET BEFORE USING PRODUCT.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES.

LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

DESTROY CONTAMINATED SHOES.