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OCTEL AMERICA INC

-- STADIS 450 CONDUCTIVITY IMPROVER

MSDS Safety Information

_____ FSC: 6850 NIIN: 01-097-2060 MSDS Date: 03/11/1999 MSDS Num: CLNLH Product ID: STADIS 450 CONDUCTIVITY IMPROVER MFN: 03 **Responsible Party** Cage: 02SG7 Name: OCTEL AMERICA INC Address: 8375 S WILLOW STREET City: LITTLETON CO 80124 Info Phone Number: 800-441-9547 Emergency Phone Number: 800-441-9547 ______ Item Description Information _____ Item Manager: S9G Item Name: ANTISTATIC ADDITIVE, AVIATION TURBINE FUEL Specification Number: NONE Type/Grade/Class: NONE Unit of Issue: GL **UI** Container Qty: 0 Type of Container: CAN _____ Ingredients _____ _____ Name: *** PROPRIETARY *** _____ ______ Health Hazards Data _____ LD50 LC50 Mixture: LD50 (ORAL, RAT) >5,000 MG/KG Route Of Entry Inds - Inhalation: YES Skin: YES Ingestion: YES Carcinogenicity Inds - NTP: YES IARC: YES **OSHA: YES** Effects of Exposure: SKIN CONTACT WITH THE PRODUCT INGREDIENT MAY CAUSE DEFATTING OF THE SKIN RESULTING IN IRRITAT

ION. INHALATION OF PRODUCT COMPONENTS MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY PASSAGES. INGESTION MAY CAUSE GASTROINTESTINAL TRACT IRRITATION.EYE CONTACT WITH THE PRODUCT INGREDIENTS MAY CAUSE EYE IRRITATION WITH DISCOMFORT. Explanation Of Carcinogenicity: THE COMPONENTS ARE LISTED BY IARC,NTP,OSHA,ACGIH AS CARCINOGENS. A"P" INDICATES A PROPOSED CARCINOGEN. OCTEL CONTROLS THE FOLLOWING MATERIALS AS POTENTIAL CARCINOGENS: BENZENEMATERIAL BENZENE ALSO LIS TER AS CARCINOGENS IARC . NTP. OSHA. ACGIH. Signs And Symptions Of Overexposure: SKIN-DISCOMFORT OR RASH. EYE-DISCOMFORT, TEARING OR BLURRING OF VISION. INHALATION-COUGHING AND DISCOMFORT: POSSIBLY LUNG IRRITATION FOLLOWED BY SEVERE SHORTNESS OF BREATH REQUIRING MEDICAL ATTENTION. MAY CAUSE NAUSEA, HEADACHE OR WEAKNESS OR TEMPORARY NERVOUS SYSTEM DEPRESSION WITH DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION AND LOSS OF CONSCIOUSNESS.INGESTION-MAY CAUSE ABDOMINAL PAIN, HEARTBUR N, NAUSEA, VOMITING AND DIARR HEA.ASPIRATION INTO LUNGS MAY RESULT IN CHEMICAL PNEUMONIA.SYMPTOMS INCLUDE COUGHING, GASPING, CHOKING SHORTNESS OF BREATH. Medical Cond Aggravated By Exposure: INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE CENTRAL NERVOUS SYSTEM, CARDIOVASCULAR SYSTEM, BONE MARROW, LOVER OR KIDNEYS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES. First Aid: INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. SKIN CONTACT-FLUSH SKIN WITH WATER AFTER CONTACT.WASH CONTAMIN ATED CLOTHING BEFORE REUSE. EYE CONTACT-IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, CALL A PHYSICIAN. INGESTION- IF SWALLOWED, DO NOT INDUCE VOMITING. IMMEDIATELY GIVE 2 GLAS SES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN. _____ Handling and Disposal

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Spill Release Procedures: USE APPROPIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN-UP. ELIMINATE SOURCES OF IGNITION HEAT, SPARKS, FLAME, ELECTRICITY, IMPACT & amp; FRICTIION. DIKE SPILL. PREVENT MATERIAL FROM ENTERING SEWERS, WATER WAYS OR LOW AREAS. SOAK UP WITH SAWDUST, SAND, OIL DRY OR OTHER ABSORBENT MATERIAL.

Waste Disposal Methods: TREATMENT, STORAGE, TRANSPORTATION, & amp; DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL & amp; LOCAL REGULATIONS. D O NOT FLUSH TO SURFACE WATER OR SANITARY SEWER SYSTEM. MATERIAL MAY BE A RCRA REGULATED HAZARDOUS WASTE UPON DISPOSAL DUE TO THE IGNITABILITY CHARACTERISTIC. Handling And Storage Precautions: HANDLING (PERSONNEL)-AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. WASH THOROUGHLY AFTER HANDLING. STORAGE-STORE IN A WELL VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. Other Precautions: HANDLING (PHYSICAL ASPECT)-GROUND CONTAINER WHEN POURING. **KEEP AWAY FROM** HEAT, SPARKS AND FLAMES. USE OF NON-SPARKING AND EXPLOSION-PROOF EQUIPMENT MAY BE NECESSARY DEPENDING ON TYPE OF OPERATION. _____ Fire and Explosion Hazard Information _____ Flash Point Method: PMCC Flash Point: =6.C, 42.8F Autoignition Temp: =440.C, 824.F Lower Limits: UNKNOWN Upper Limits: UNKNOWN Extinguishing Media: WATER SPRAY, FOAM, DRY CHEMICAL, CO2. WATER MAY BE **INEFFECTIVE FOR FIGHTI** NG FIRE, WATER SPRAY MAY BE USED TO ABSORB MUCH OF THE HEAT AND KEEP EXPOSED MATERIAL FROM BEING DAMAGED Fire Fighting Procedures: EVACUATE PERSONNEL TO SAFE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR FULL PROTECTIVE EQUIPMENT. COOL TANK/CONTAINER WITH WATER SPRAY. Unusual Fire/Explosion Hazard: FLAMMABLE LIQUID. VAPOR FORMS EXPLOSIVE MIXTURE WITH AIR. ================== **Control Measures** _____ =

Respiratory Protection: WHERE THERE IS POTENTIAL FOR AIRBORNE EXPOSURES, WEAR NIOSH/MSHA-APPROVED RESPIRATOR PROTECTION.

Ventilation: KEEP CONTAINER TIGHTLY CLOSED. USE SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS.

Protective Gloves: IMPERVIOUS GLOVES WHEN POTENTIAL FOR SKIN CONTACT.

Eye Protection: SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES&FACE SHIELD WHERE SPLASHING

Other Protective Equipment: APRON, PANTS AND JACKET WHERE THERE IS POTENTIAL FOR

SKIN CONTACT. Work Hygienic Practices: WASH CONTAMINATED CLOTHING BEFORE REUSE . FLUSH SKIN WITH WATER AFTER CONTACT. Supplemental Safety and Health: NOTE TO PHYSICIAN: ACTIVATED CHARCOAL MIXTURE MAY BE ADMINSTERED. TO PREPARE MIXTURE, SUSPEND 50 GRAMS ACTIVATED CHARCOAL IN 400 ML WATER AND MIX THOROUGHLY. ADMINISTER 5 ML/KG OR 350 ML FOR AN AVERAG E ADULT. _____ Physical/Chemical Properties _____ ======== HCC: F2 NRC/State LIC No: NOT RELEVANT Boiling Point: =90.C, 194.F B.P. Text: @760 MM HG M.P/F.P Text: UNKNOWN Decomp Text: UNKNOWN Vapor Pres: UNKNOWN Vapor Density: UNKNOWN Spec Gravity: 0.92 60/60F Viscosity: UNKNOWN Evaporation Rate & amp; Reference: >1 (BUTYL ACETATE=1) Solubility in Water: SLIGHT Appearance and Odor: CLEAR DARK AMBER LIQUID - TOLUENE ODOR **Corrosion Rate: UNKNOWN** _____ Reactivity Data ------_____ Stability Indicator: YES Stability Condition To Avoid: DECOMPOSES WITH HEAT. Hazardous Decomposition Products: DECOMPOSITION PRODUCTS FORMED: S02 Hazardous Polymerization Indicator: NO _____ Toxicological Information _____ Toxicological Information: ANIMAL DATA "STANDIS" 450. TOLUENE: INHALATION 4 HR. ALC: 4,000 PPM IN RATS. SKIN ABSORPTION LD50: 12,124 MG/KG RABBITS . ORAL LD50: 5,580 MG/KG RATS. ISOPROPYL ALCOHOL: ORAL LD50: 4,700 MG/KG IN RATS. INHALATION 4 HR. LC50: 16,000 PPM IN RATS. SKIN ABSORPTION LD50: 12,900 MG/KG. AROMATIC 150: INHALATION 6 HR. LC50: >11.67 MG/L IN RATS. SKIN ABSORPTION LD50: >3,160 MG/KG IN RABBITS. THE PRODUCT IS A SLIGHT SKIN IRRTANT IN ANIMALS. TOLUENE IS A SLIGHT SKIN IRRITANT, IS A MILD EYE IRRITANT, AND IS NOT A SKIN SENSITIZER IN ANIMALS. _____

Ecologica

I Information

Ecological: 96 HOUR LC50, FATHEAD MINNOWS: 12 MG/L.

MSDS Transport Information

Transport Information: DOT- PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (CONTAINS TOLUENE & amp; ISOPROPANOL). HAZARD CLASS: 3. I.D. NO (UN/NA): UN 1993. PACKAGING GROUP: II. DOT LABEL: FLAMMABLE LIQUID. IMO- PROPER SHIPPING NAM

E: FLAMMABLE LIQUID, N.O.S. (CONTAINS TOLUENE & amp; ISOPROPANOL). HAZARD CLASS: 3.2. I.D. NO (UN/NA): UN 1993. PACKAGING GROUP: II. DOT/IMO LABEL: FLAMMABLE LIQUID. SPECIAL INFORMATION: FLASH POINT: 6 C (42 F). SHIPPING CONTAINERS: STEEL DRUMS: UN1A1/Y/100 (PHENOLIC LINED). REPORTABLE QUANTITY: 1000 LB TOLUENE.

Regulatory Information

Sara Title III Information: TOLUENE AND NA

PHTHALENE*-DISCLOSURE AS A TOXIC

CHEMICAL IS REQUIRED UNDER SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. TITLE III HAZARD CLA SSIFICATION SECTIONS 311, 312. ACUTE: YES. CHRONIC: NO. FIRE: YES. REACTIVITY: NO. PRESSURE: NO.

Federal Regulatory Information: TSCA INVENTORY STATUS: REPORTED//INCLUDED. State Regulatory Information: THIS PRODUCT CONTAINS TRACE QUANTITIES (&It;600 PPM) OF BENZENE, A CHEMICAL KNOWN TO THE STATE OF CAL IFORNIA TO CAUSE CANCER.

Other Information

Other Information: DINNSA STABILIZER-STADIS IS A REGISTERED TRADEMARK OF OCTEL AMERICA, INC. NFPA, NPCA-: NPCA- RATING: HEALTH-2, FLAMMABILITY-4, REACTIVITY-1. PERSONAL PROTECTION RATING TO BE SUPPLIED BY USER D EPENDING ON USE CONDITIONS.

Transportation Information

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Responsible Party Cage: 02SG7

Trans ID NO: 159298

Product ID: STADIS 450 CONDUCTIVITY IMPROVER

MSDS Prepared Date: 03/11/1999

Review Date: 10/15/2001

MFN: 3

Tech Entry NOS Shipping Nm: TOLUENE & amp; ISOPROPANOL

Net Unit Weight: 7.7 LBS

Multiple KIT Number: 0

Review IND: Y

Unit Of Issue: GL

Container QTY: 0

Type Of Container: CAN

Detail DOT Information

======= DOT PSN Code: GJJ Symbols: G DOT Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S. Hazard Class: 3 UN ID Num: UN1993 DOT Packaging Group: II Label: FLAMMABLE LIQUID Special Provision: T8.T31 Non Bulk Pack: 202 Bulk Pack: 242 Max Qty Pass: 5L Max Qty Cargo: 60 L Vessel Stow Req: B _____ Detail IMO Information _____ IMO PSN Code: HIN IMO Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. o IMDG Page Number: 3230 UN Number: 1993 UN Hazard Class: 3.2 IMO Packaging Group: I/II Subsidiary Risk Label: -EMS Number: 3-07 MED First Aid Guide NUM: T _____ **Detail IATA Information** _____ IATA PSN BV IATA UN ID Num: 1993 IATA Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. * IATA UN Class: 3 IATA Label: FLAMMABLE LIQUID UN Packing Group: II Packing Note Passenger: 305 Max Quant Pass: 5L Max Quant Ca rgo: 60L Packaging Note Cargo: 307 _____ Detail AFI Information _____ AFI PSN BV AFI Symbols: * AFI Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S. AFI Hazard Class: 3 AFI UN ID NUM: UN1993 AFI Packing Group: II **Special Provisions: P5** Back Pack Reference: A7.3 _____ HAZCOM Label ______

Product ID:

STADIS 450 CONDUCTIVITY IMPROVER Cage: 02SG7 **Company Name: OCTEL AMERICA INC** Street: 200 EXECUTIVE DR City: NEWARK DE Zipcode: 19702 Health Emergency Phone: 800-441-9547 Label Required IND: Y Date Of Label Review: 10/15/2001 Status Code: A Year Procured: 2001 Origination Code: F Eye Protection IND: YES Skin Protection IND: YES Signal Word: DANGER **Respiratory Protection IND: YES** Health Hazard: Moderate Contact Hazard: Moderate Fire Hazard: Severe **Reactivity Hazard: Slight** Hazard And Precautions: SKIN CONTACT WITH THE PRODUCT INGREDIENT MAY CAUSE DEFATTING OF THE SKIN RESULTING IN IRRITATION. INHALATION OF PRODUCT COMPONENTS MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY PASSAGES. INGESTION MAY CAUSE GASTROINTESTINAL TRACT IRRITATION.EYE CONTACT WITH THE PRODUCT INGREDIENTS MAY CAUSE EYE IRRITATION WITH DISCOMFORT. _____

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