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OCTEL AMERICA, INC. -- STADIS 450 CONDUCTIVITY IMPROVER

MSDS Safety Information

FSC: 6850

NIIN: 01-099-4015 MSDS Date: 03/11/1999 MSDS Num: CKBNJ

Product ID: STADIS 450 CONDUCTIVITY IMPROVER

MFN: 01

Responsible Party Cage: TO504

Name: OCTEL AMERICA, INC. Address: 200 EXECUTIVE DRIVE

City: NEWARK D

E 19702

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: CN

Quantitative Expression: 00000000005GL

UI Container Qty: 0
Type of Container: CAN

Ingr edients

Name: *** PROPRIETARY ***

Health Hazards Data

LD50 LC50 Mixture: LD50 (ORAL, RAT) 5,580 MG/KG (TOLUENE)

Carcinogenicity Inds - NTP: YES

IARC: YES OSHA: YES

Effects of Exposure: TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM, LIVER,

KIDNEYS, CNS (). POTENTIAL HEALTH EFFECTS SKIN CONTACT MA

Y CAUSE IRRITATION,

DEFATTING, DISCOMFORT, RASH. SIGNIFICANT PERMEATION APPEARS UNLI KELY. EYE CONTACT MAY CAUSE IRRITATION, DISCOMFORT, TEARING, OR BLURRING VISION. INHALATION MAY CAUSE IRRITATION, COUGHING, DISCOMFORT, SEVERE SHORTNESS OF BREATH, NAUSEA, HEADACHE, WEAKNESS OR TEMPOR ARY NERVOUS SYSTEM DEPRESSION WITH ANESTHETIC EFFECTS SUCH AS DIZZINESS, CONFUSION, UNCONSCIOUSNESS. INGESTION MAY CAUSE HEART BURN, PAIN, NAUSEA, VOMITING. ASPIRATION HAZARD. HIGHER/PROLONGED EXPOSUR

ES MAY CAUSE LIVER AND KIDNEY EFFECTS.

Explanation Of Carcinogenicity: CONTAINS BENZENE.

Signs And Symptions Of Overexposure: SKIN CONTACT MAY CAUSE IRRITATION, DEFATTING, DISCOMFORT, RASH. EYE CONTACT MAY CAUSE IRRITATION, DISCOMFORT, TEARING, OR BLURRING VISION. INHALATION MAY CAUSE IRRITATION, COUGHING, DISCOMFORT, SEVERE SHORTNESS OF BREATH, NAUSEA, HEADACHE, WEAKNESS OR TEMPORARY NERVOUS SYSTEM DEPRESSION WITH ANESTHETIC EFFECTS SUCH AS DIZZINESS, CONFUSION, INCOORDINATION, UNCON

SCIOUSNESS. INGESTION MAY CAUSE GI

TRA CT IRRITATION, HEART BURN, ABDOMINAL PAIN, NAUSEA, VOMITING. ASPIRATION INTO THE LUNGS MAY CAUSE COUGHING, GASPING, CHOCKING, SHORTNESS OF BREATH, BLUISH DISCOLORATION OF THE SKIN, RAPID BREATHING AND HEART RATE AND FEVER. Medical Cond Aggravated By Exposure: INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE CENTRAL NERVOUS SYSTEM, CARDIOVASCULAR SYSTEM, BONE MARROW, LIVER OR KIDNEYS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EX

POSURES.

First Aid: INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. EYE CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST15 MINUTES. CALL A PHYSICIAN. SKIN CONTACT: FLUSH SKIN WITH WATER AFTER CONTACT. WASH CONTAMINATED CLOTHING BEFORE REUSE. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. IMMEDIATELY GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHIN

G BY MOUTH TOAN UNCONSCIOUS PERSON. CALL A PHYSICIAN.

Handling and Disposal

Spill Release Procedures: REVIEW FIRE FIGHTING MEASURES AND HANDLING SECTIONS BEFORE CLEAN-UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ELIMINATE ALL SOURCES OF IGNITION. DIKE SPILL. PREVENT MATERIAL FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS. SOAK UP WITH SAWDUST, SAND, OIL DRY OR OTHER ABSO

RBENT MATERIAL (: NON-FLAMMABLE). A RELEASE OF 100 LBS MAY TRIGGER REPORTING REQUIREMENTS OF CERCLA SECTION 103.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: TREATMENT, STORAGE, TRANSPORTATION OR DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. DO NOT FLUSH TO SURFACE WATER OR SANITARY SEWER SYSTEM. THIS MATER IAL MAY BE A RCRA REGULATED HAZARDOUS WASTE UPON DISPOSAL DUE TO THE IGNITABILITY CHARACTERISTIC.

Ha

ndling And Storage Precautions: STORE IN A WELL VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. GROUND CONTAINER WHEN POURING. KEEP AWAY FROM HEAT, SPARKS AND FLAMES. USE OF NON-SPARKING AND EXPLOSION-PROOF EQUIPMENT MAY BE NECESSA RY DEPENDING ON TYPE OF OPERATION.

Other Precautions: AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. WASH THOROUGHLY AFTER HANDLING.

Fire and Explosion Hazard Information

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Flash Point Method: PMCC Flash Point: =6.C, 42.8F

Autoignition Temp: =440.C, 824.F Autoignition Temp Text: ESTIMA

Lower Limits: NOT GIVEN Upper Limits: NOT GIVEN

Extinguishing Media: WATER SPRAY, CO2, FOAM, DRY CHEMICAL. WATER MAY BE

INEFFECTIVE FOR FIGHTING FIRE, HOWEVER WATER SPRAY MAY BE USED TO ABSORB MUCH

OF THE HEAT AND TO COOL FIRE EXPOSED CONTAINERS.

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 EXPOSURE, WEAR NIOSH/MSHA APPROVED RESPIRATORY PROTECTION.

Ventilation: KEEP CONTAINER TIGHTLY CLOSED. USE SUFFICIENT VENT

ILATION TO KEEP

EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS.

Protective Gloves: IMPERVIOUS GLOVES

Eye Protection: SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES OR FACE

SHIELD WHEN SPRAYING

Other Protective Equipment: WHERE THERE IS POTENTIAL FOR SKIN CONTACT HAVE

AVAILABLE AND WEAR IMPERVIOUS GLOVES, APRON, PANTS AND JACKET.

Work Hygienic Practices: NOT PROVIDED. Supplemental Safety and Health: NONE

Physical/Chemical Properties

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HCC: F2

NRC/State LIC No: NOT RELEVANT.

Boiling Point: =90.C, 194.F

B.P. Text: IBP

Vapor Pres: NOT GIVEN Vapor Density: NOT GIVEN

Spec Gravity: 0.92

Evaporation Rate & Evaporation R

Solubility in Water: SLIGHT

Appearance and Odor: CLEAR DARK AMBER LIQUID, TOLUENE ODOR

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: HIGH HEAT, SPARKS, FLAME, OTHER SOURCES OF

IGNITION ()

Materials To Avoid: NONE REASONABLY FORESEEABLE. Hazardous Decomposition Products: SULFUR DIOXIDE (SO2)

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NONE. WILL NOT OCCUR.

Toxicological Information

Toxicological Information: ANIMAL DATA: TOLUENE: INHALATION 4 HR ALC: 4,0

00 PPM

IN RATS. SKIN ABSORPTION LD50: 12,124 MG/KG IN RABBITS. ORAL LD50: 5,580 MG/KG IN RATS. ISOPROPYL ALCOHOL: ORAL LD50: 4,700 MG/KG IN RATS. INHALATI ON 4 HR LC50: 16,000 PPM IN RATS. SKINABSORPTION LD50: 12,900 MG/KG. AROMTAIC 150: INHALATION 6 HR LC50: >11.67 MG/L IN RATS. SKIN ABSORPTION LD50: >3,160 MG/KG IN RABBITS. THE EFFECTS IN ANIMALS: UNC ONSCIOUSNESS AND CARDIAC SENSITIZATION. REPEATED EXPOSURES IN RANGE OF 10 - 60 X TLV RESULTED IN HEARING LOSS, ANESTHETIC EF

FECTS, HYPOTHERMIA, EXCITEMENT, DISORIENTATION AND A REVERSIBLE INCREASED IN LIVER AND KIDNEY WEIGHTS.

Ecological 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 & Samp; ISOPROPANOL); HAZARD CLASS: 3; UN ID#: UN1993; PACKING GROUP II; DOT LABEL: FLAMMABLE LIQUID. IMO PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (CONTAINS TOLUENE & Samp; ISOPROPANOL); HAZARD CLASS: 3.2; UN ID#: UN1993; PACKING GROUP II; LABEL: FLAMMABLE LIQUID. SPECIAL INFORMATION: FLASH POINT: 6C (42F). SHIPPING CONTAINERS: UN1A1/Y /100 (PHENOLIC LINED). REPORTABLE QUANTITY: 1000 LB TOLUENE.

Regul

atory Information

Sara Title III Information: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: TOLUENE, NAPHTHALENE. SECTION 311/312:ACUTE - YES, CHRONIC - NO, FIRE: YES, REACTIVITY: NO, PRESSURE: NO.

Federal Regulatory Information: TSCA INVENTORY STATUS: REPORTED/INCLUDED.

State Re

gulatory Information: THIS PRODUCT CONTAINS TRACE QUANTITIES (<600

PPM) OF BENZENE, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Other Information

Other Information: NOTE TO PHYSICIAN: ACTIVATED CHARCOAL MIXTURE MAY BE ADMINSTERED. TO PREPARE THE MIXTURE, SUSPEND 50 GRAMS ACTIVATED CHARCOAL IN 400 ML WATER AND MIX THOROUGHLY. ADMINISTER 5 ML/KG OR 350 ML FOR A N AV ERAGE

ADULT. BECAUSE OF THE DANGER OF ASPIRATION, EMESIS OR GASTRIC LAVAGE SHOULD BE EMPLOYED UNLESS RISK IS JUSTIFIED BY PRESENCE OF ADDITIONAL TOXIC SUBSTANCES. ACTIVATED CHARCOAL MAY INDUCE VOMITIN G, BUT MAY BE GIVEN AFTER EMESIS OR LAVAGE TO ABSORB TOXIC ADDITIVES. BECAUSE OF POSSIBLE INCREASED RISK OF ELICITING CARDIAC DYSRHYTHMIAS, CATECHOLAMINE DRUGS SHOULD BE USED WITH SPECIAL CAUTION IN S ITUATION OF EMERGENCY LIFE SUPPORT.

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Transportation Information

Responsible Party Cage: TO504

Trans ID NO: 151392

Product ID: STADIS 450 CONDUCTIVITY IMPROVER

MSDS Prepared Date: 03/11/1999

Review Date: 02/08/2000

MFN: 1

Tech Entry NOS Shipping Nm: CONTAINS TOLUENE AND ISOPROPANOL.

Net Unit Weight: 38.3 LBS Multiple KIT Number: 0 Unit Of Issue: CN Container QTY: 0

Type Of Container: CAN

Additional Data: DOT, IMO PROPER SHIPPING NAME, UN ID NUMBER, HAZARD CLASS AND PACKING GROUP, PER MSDS. DOT/LABEL: FL AMMABLE LIQUID. SHIPPING CONTAINERS

STEEL DRUMS: UN1A1/Y/100 (PHENOLIC LINED). REPORTABLE QUANTITY: 1000 LB

TOLUENE. CARGO AIRCRAFT ONLY.

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 Reg: 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

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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 Cargo: 60L Packaging Note Cargo: 307

Detail AFI Information

AFI PSN BV AFI Symb

ols: *

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: TO504 Assigned IND: Y

Company Name: OCTEL AMERICA, INC.

Street: 200 EXECUTIVE DRIVE

City: NEWARK DE Zipcode: 19702

Health Emergency Phone: 800-441-9547

Label Required IND: Y

Date Of Label Review: 02/08/2000

Status Code: A

MFG Label NO: UNKNOWN.

Year Procured: 2000
Origination Code: F
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: DANGER

Respiratory Protection IND: NO

Health Hazard: Moderate Contact Hazard: Slight Fire Hazard: Severe Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM, LIVER, KIDNEYS, CNS (). WARNING: FLAMMABLE LIQUID AND VAPOR. CAUSES EYE, SKIN AND

RESPIRATORY TRACT

IRRITATION. MAY CAUSE NERVOUS SYSTEM EFFECTS SUCH AS DIZZINESS, NAUSEA, HEADACHE. MAY CAUSE LIVER AND KIDNEY EFFECTS. KEEP AWAY FROM HEAT, SPARKS AND FLAME. FIRST AID: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. EYE CONTACT: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. IF SWALLOWED, DO NOT INDUCE VOMITING. IMMEDIATELY GIVE 2 GLASSES OF WATER. CALL A PHYSICIAN.

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