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OCTEL AMERICA INC -- STADIS 450 CONDUCTIVITY IMPROVER

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MSDS Safety Information

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FSC: 6850

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

Product ID: STADIS 450 CONDUCTIVITY IMPROVER

MFN: 02

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

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Item Description Information

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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

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In

gredients

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Name: \*\*\* PROPRIETARY \*\*\*

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Health Hazards Data

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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

# MAY 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 TEMPORA RY NERVOUS SYSTEM DEPRESSION WITH ANESTHETIC EFFECTS SUCH AS DIZZINESS, CONFUSION, UNCONSCIOUSNESS. INGESTION MAY CAUSE HEART BURN, PAIN, NAUSEA, VOMITING. ASPIRATION HAZARD. HIGHER/PROLONGED EXPOSU

RE S 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, UNCO

NSCIOUSNESS. 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 E

# XPOSURES.

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 ANYTHI

NG BY MOUTH TOAN UNCONSCIOUS PERSON. CALL A PHYSICIAN.

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Handling and Disposal

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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 ABS

ORBENT 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 AND LOCAL REGULATIONS. DO NOT FLUSH TO SURFACE WATER OR SANITARY SEWER SYSTEM. THIS MATERIAL MAY BE A RCRA REGULATED HAZARDOUS WASTE UPON DISPOSAL DUE TO THE IGNITABILITY CHARACTERISTIC.

Handling And

Storage Precautions: STORE IN A WELL VENTILATED AREA. 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 NECESSAR Y DEPENDING ON TYPE OF OPERATION.

Other Precautions: AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. DO NOT BREATHE VAPORS. WASH THOROUGHLY AFTER HANDLING.

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Fire and Explosion Hazard Inf

ormation

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Flash Point Method: PMCC Flash Point: =5.6C, 42.F

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**

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Respiratory Protection: WHERE THERE IS POTENTIAL FOR AIRBORNE EXPOSURE, WEAR NIOSH-APPROVED RESPIRATORY SYSTEM.

Ventilation: KEEP CONTAINER TIGHTLY CLOSED. USE SUFFICIENT V

**ENTILATION TO KEEP** 

EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS.

Protective Gloves: IMPERVIOUS GLOVES

Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment: SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE

LOCATED NEARBY. WEAR APPROPRIATE PROTECTIVE CLOTHING FOR RISK OF EXPOSURE.

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health: NONE

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Physical/Chemical Properties

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HCC: F2

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

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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.

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Toxicological Information

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Toxicological Information: ANIMAL

DATA: TOLUENE: INHALATION 4 HR ALC: 4,000 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:

&at:3,160 MG/KG IN RABBITS.

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**Ecological Information** 

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

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**MSDS** Transport Information

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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.

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Regulatory Information

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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 Regulatory Information: THIS PRODUCT CONTAINS TRACE QUANTITIES (&It;600

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

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Other Informatio

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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 AN 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. BECAUSEOF POSSIBLE INCREASED RISK OF ELICITING CARDIAC DYSRHYTHMIAS, CATECHOLAMINE DRUGS SHOULD BE USED WITH SPECIAL CAUTION IN SI TUATION OF EMERGENCY LIFE SUPPORT.

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Transportation Information

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Responsible Party Cage: 02SG7

Trans ID NO: 148915

Product ID: STADIS 450 CONDUCTIVITY IMPROVER

MSDS Prepared Date: 03/11/1999

Re

view Date: 10/30/1999

MFN: 2

Tech Entry NOS Shipping Nm: CONTAINS TOLUENE AND ISOPROPANOL

Net Unit Weight: 38.3LBS CAN

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.

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**Detail DOT Information** 

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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

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### Detail IMO Information

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======= 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**

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IATA PSN BV

IATA UN ID Num: 1993

IATA Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. \*

IATA UN Class: 3

IATA Label: FLAMMABL

**E LIQUID** 

UN Packing Group: II

Packing Note Passenger: 305

Max Quant Pass: 5L Max Quant Cargo: 60L Packaging Note Cargo: 307

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**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

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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: 09/30/1999

Status Code: C

Label Date: 03/11/1999 Year Procured: 1999

Origination

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 RESPIRA

TION. 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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