

MSDS Safety Information

FSC: 6850  
NIIN: 01-447-4075  
MSDS Date: 03/11/1999  
MSDS Num: CJVHP  
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

Item Description Information

Item Manager: S9G  
Item Name: ANTISTATIC ADDITIVE  
Specification Number: NONE  
Type/Grade/Class: NONE  
Unit of Issue: DR  
Quantitative Expression: 00000000055GL  
UI Container Qty: 0  
Type of Container: DRUM

Ingredients

Name: \*\*\* PROPRIETA  
RY \*\*\*

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 IRRITATION. INHALATION OF PRODUCT  
COMPONENTS MAY CA

USE 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 LISTED AS CARCINOGENS IARC, NTP, OSHA, ACGIH.

Signs And Symptoms Of Over

exposure: 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, HEARTBURN, NAUSEA, VOMITING AND DIARRHEA. ASPIRATION INTO LUNGS MAY RESULT IN CHEMIC

AL

PNEUMONIA. SYMPTOMS INCLUDE COUGHING, GASPING, CHOKING SHORTNESS OF BREATH.

Medical Condition 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 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 CONTAMINATED 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 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN.

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Handling and Disposal

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Spill Release Procedures: USE APPROPRIATE

PERSONAL PROTECTIVE EQUIPMENT DURING

CLEAN-UP. ELIMINATE SOURCES OF IGNITION HEAT, SPARKS, FLAME, ELECTRICITY, IMPACT & FRICTION. DIKE SPILL. PREVENT MATERIAL FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS. SOAK UP WITH SAWDUST, SAND, OIL DRY OR OTHER ABSORBENT MATERIAL.

Waste Disposal Methods: TREATMENT, STORAGE, TRANSPORTATION, & DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL & LOCAL REGULATIONS. DO 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 A  
ND

EXPLOSION-PROOF EQUIPMENT MAY BE NECESSARY DEPENDING ON TYPE OF OPERATION.

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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  
Lower Limits: UNKNOWN  
Upper Limits: UNKNOWN  
Extinguishing Media: WATER SPRAY, FOAM, DRY CHEMICAL, CO2. WATER MAY BE  
INEFFECTIVE FOR FIGHTING FIRE, WATER SPRAY MAY BE USED TO ABSORB MUC  
H 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.

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Control Measures  
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Respiratory Protection: WHERE THERE IS POTEN  
TIAL 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 CO

NTAMINATED CLOTHING BEFORE REUSE . FLUSH SKIN  
WITH WATER AFTER CONTACT.

Supplemental Safety and Health: NOTE TO PHYSICIAN: ACTIVATED CHARCOAL MIXTURE  
MAY BE ADMINISTERED. 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.

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#### Physical/Chemical Properties

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HCC: F2

NRC/State LIC No: NOT RELEVA

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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 & Reference: >1 (BUTYL ACETATE=1)

Solubility in Water: SLIGHT

Appearance and Odor: CLEAR DARK AMBER LIQUID - TOLUENE ODOR

Corrosion Rate: UNKNOWN

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#### Reactivity Data

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Stability Indicato

r: YES

Stability Condition To Avoid: DECOMPOSES WITH HEAT.

Hazardous Decomposition Products: DECOMPOSITION PRODUCTS FORMED: S02

Hazardous Polymerization Indicator: NO

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#### Toxicological Information

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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 ALC

OHOL: 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

IRRITANT IN ANIMALS. TOLUENE IS A SLIGHT SKIN IRRITANT, IS A MILD EYE

IRRITANT, AND IS NOT A SKIN SENSITIZER IN ANIMALS.

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

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Regulatory Information

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Sara Title III Information: DISCLOSURE AS A TOXIC CHEMICAL IS REQUIRED UNDER  
SECTION 3

13 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT  
OF 1986 AND 40 CFR PART 372.

Federal Regulatory Information: TSCA INVENTORY STATUS: REPORTED//INCLUDED.  
TITLE III HAZARD CLASSIFICATION SECTIONS 311, 312. ACUTE: YES. CHRONIC: NO.  
FIRE: YES. REACTIVITY: NO. PRESSURE: NO.

State Regulatory Information: THIS PRODUCT CONTAINS TRACE QUANTITIES (<600  
PPM) OF BENZENE, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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Other Information

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Other Information: DINNSA STABILIZER-STADIS IS A REGISTERED TRADEMARK OF OCTEL  
AMERICA, INC.

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Transportation Information

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Responsible Party Cage: 02SG7

Trans ID NO: 150455

Product ID: STADIS 450 CONDUCTIVITY IMPROVER

MSDS Prepared Date: 03/11/1999

Review Date: 12/02/1999

MFN: 2

Net Unit Weight: 421.5 L

BS  
Multiple KIT Number: 0  
Unit Of Issue: DR  
Container QTY: 0  
Type Of Container: DRUM

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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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ATA 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

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Detail AFI Information

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AFI PSN BV  
AFI Symbols: \*  
AFI Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.  
AFI Hazard Class: 3  
AFI UN ID NUM: UN19

93  
AFI Packing Group: II  
Special Provisions: P5  
Back Pack Reference: A7.3

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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: 12/02/1999

Status Code: A

Year Procured: 1999

Origination Code: F

Chronic

Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: WARNING

Respiratory Protection IND: YES

Health Hazard: Moderate

Contact Hazard: Slight

Fire Hazard: Moderate

Reactivity Hazard: None

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 TH  
E PRODUCT  
INGREDIENTS MAY CAUSE EYE IRRITATION WITH DISCOMFORT.

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