STADIS 450 CONDUCTIVITY IMPROVER (DINNSA STABILIZER)

MSDS Number

CLNRZ

National Stock Number

6850-01-447-4075

Product Name

STADIS 450 CONDUCTIVITY IMPROVER (DINNSA STABILIZER)

Manufacturer

OCTEL STARREON L L C

Product Identification

Product ID:STADIS 450 CONDUCTIVITY IMPROVER (DINNSA STABILIZER)
MSDS Date:11/03/1999
FSC:6850
NIIN:01-447-4075
Status Code:A
MSDS Number: CLNRZ

Responsible Party

OCTEL STARREON L.L.C.

8375 S. WILLOW ST

LITTLETON , CO 80124

US

Emergency Phone: (800) 873-8711 MEDICAL EMERGENCY

Info Phone: 800-873-8711

Preparer: AL HOMAN (800-441-9547)

Cage: 1ML15

Contractor

OCTEL STARREON L.L.C.

LITTLETON, CO 80124

US

800-441-9547 /303-792-5554

Cage: 1ML15

Ingredients

TOLUENE

CAS: 108-88-3

RTECS: XS5250000

OSHA PELsee Table Z-2

ACGIH TLV: 188 MG/M3;50 PPM

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

BENZENE

CAS: 71-43-2

RTECS: CY1400000

Fraction By Weight:

OSHA PEL1 PPM, 8 HR TWA

ACGIH TLV: 1.6 MG/M3 O.5 PPM S

EPA Report Quantity: 10 LBS

DOT Report Quantity: 10 LBS

ISOPROPYL ALCOHOL

CAS: 67-63-0

RTECS: NT8050000

OSHA PEL980 MG/M3;400 PPM

ACGIH TLV: 983 MG/M3;400 PPM

NJ TRADE SECRET REGISTRY #35-1927749-5457

NJ TRADE SECRET REGISTRY #35-1927749-5037

DINONYLNAPHTHYLSULFONIC ACID (DINNSA)

CAS: 25322-17-2

AROMATIC 150

CAS: 64742-94-5

RTECS: WF3100000

NAPHTHALENE

CAS: 91-20-3

RTECS: OJ0525000

OSHA PEL50 MG/M3;10 PPM

ACGIH TLV: 52 MG/M3;10 PPM

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

Hazards

LD50 LC50 Mixture:TOLUENE: RAT, ORAL, LD50: 5,580 MG/KG
Health Hazards Acute and Chronic:SKIN CONTACT: MAY CAUSE IRRITATION, RASH, DEFATTING. THERE ARE RARE INCONCLUSIVE REPORTS OF SENSITIZATION FROM CONTACT WITH ISOPROPYL ALCOHOL. SIGNIFICANT SKIN PERMEATION APPEARS UNLIKELY. EYE CONTACT : MAY CAUSE IRRITATION WITH DISCOMFORT, TEARING, BLURRING OF VISION. INHALATION: MAY CAUSE IRRITATION OF UPPER RESPIRATORY PASSAGES, WITH COUGHING, DISCOMFORT, LUNG IRRITATION, SEVERE SHORTNESS OF BRE ATH REQUIRING MEDICAL ATTENTION, LOSS OF CONSCIOUSNESS. INGESTION: MAY CAUSE GASTROINTESTINAL TRACT IRRITATION WITH UPPER ABDOMINAL PAIN, "HEART BURN", NAUSEA, VOMITING, AND DIARRHEA. HOWEVER, THERE M AY BE (CONTD. SEE "OTHER INFO")
Explanation of Carcinogenicity:THE BENZENE INGREDIENT IS LISTED BY IARC, NTP, OSHA, ACGIH AS A CARCINOGEN. THE WEIGHT PERCENT OF BENZENE IN THIS PRODUCT IS < 0.0595 %. OCTEL STARREON CONTROLS THE FOLLOWING MATERIALS AS POTENTIAL CA RCINOGENS: BENZENE.
Effects of Overexposure:SKIN CONTACT: IRRITATION, RASH, DEFATTING,

SENSITIZATION. EYE CONTACT: IRRITATION, TEARING, BLURRING. INHALATION: IRRITATION OF UPPER RESPIRATORY PASSAGES, LUNG IRRITATION, COUGHING, SHORTNESS OF BREA TH, NAUSEA, HEADACHE, WEAKNESS, NERVOUS SYSTEM DEPRESSION, ANESTHETIC EFFECTS, DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS. INGESTION: GI TRACT IRRITATION, UPPER ABDOMINAL PA IN, "HEAT BURN", NAUSEA, VOMITING, DIARRHEA. ASPIRATION INTO LUNGS: "CHEMICAL PNEUMONIA", COUGHING, GASPING, CHOKING, SHORTNESS OF BREATH, BLUISH DISCOLORATION OF SKIN, RAPID BREATHING AND HEART RATE, FEVER.
Medical Cond Aggravated by Exposure:INDIVIDUAL WITH PREEXISTING DISEASES OF THE CENTRAL NERVOUS SYSTEM, CARDIOVASCULAR SYSTEM, BONE MARROW, LIVER OR KIDNEYS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY (CONTD. SEE "TOXICOLOGICAL")

First Aid

First Aid:INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. SKIN CONTACT: FLUSH WITH WATER. WASH CONTAMINATED CLOTHING BEFOR E REUSE. EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN. INGESTION: DO NOT INDUCE VOMITING. GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYS ICIAN. NOTES TO PHYSICIAN: SEE MANUFACTURER'S MSDS FOR INFORMATION IN RESPECT TO TREATMENTS.

Fire Fighting

Flash Point Method:PMCC
Flash Point:=5.6C, 42.F
Autoignition Temp:=440.C, 824.F
Autoignition Temp Text:EST.
Extinguishing Media:WATER SPRAY, FOAM, DRY CHEMICAL, CO2.
Fire Fighting Procedures:WATER MAY BE INEFFECTIVE FOR FIGHTING FIRE, HOWEVER WATER SPRAY MAY BE USED TO ABSORB MUCH OF THE HEAT AND TO KEEP EXPOSED MATERIAL FROM BEING DAMAGED BY THE FIRE. EVACUATE PERSONNEL TO SAFE AREA. WEA R 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.

Accidental Release

Spill Release Procedures:USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN-UP. ELIMINATE ALL SOURCES OF IGNITION: HEAT, SPARKS, FLAME, ELECTRICITY, IMPACT AND FRICTION. DIKE SPILL. PREVENT MATERIAL FROM ENTERING SEWE RS, WATERWAYS OR LOW AREAS. SOAK UP WITH SAWDUST, SAND, OIL DRY, OR OTHER ABSORBENT MATERIAL. THIS MATERIAL IS AN ICR (IGNITABLE, CORROSIVE, REACTIVE) SUBSTANCE UNDER CERCLA. (CONTD. SEE "ECOLOGICAL")

Handling

Handling and Storage Precautions: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. STORE IN A WELL VENTILATED PLA CE. KEEP CONTAINER TIGHTLY CLOSED.
Other Precautions:AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINER TIGHTLY CLOSED. USE SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RE COMMENDED LIMITS.

Exposure Controls

Respiratory Protection:WHERE THERE IS POTENTIAL FOR AIRBORNE EXPOSURES, WEAR NIOSH/MSHA APPROVED RESPIRATORY PROTECTION.
Ventilation:KEEP CONTAINER TIGHTLY CLOSED. USE SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS.
Protective Gloves:WEAR IMPERVIOUS GLOVES.
Eye Protection:WEAR SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES.
Other Protective Equipment:ADDITIONALLY, WEAR A FACE SHIELD WHERE THE

POSSIBILITY EXISTS FOR FACE CONTACT DUE TO SPLASHING OR SPRAYING OF MATERIAL. WEAR IMPERVIOUS APRON, PANTS AND JACKET.
Supplemental Safety and Health

Chemical Properties

HCC:F2
Boiling Pt:=90.C, 194.F
B.P. Text:IBP@760 MMHG
Spec Gravity:0.92 60/60F(7.79 LB/GAL)
Evaporation Rate & Reference:>1 (BUTYL ACETATE=1)
Solubility in Water:SLIGHT
Appearance and Odor:CLEAR DARK AMBER LIQUID; TOLUENE ODOR

Stability

Stability Indicator/Materials to Avoid:YES
NONE REASONABLY FORESEEABLE.
Stability Condition to Avoid:STABLE AT NORMAL TEMPERATURES AND STORAGE CONDITIONS.
Hazardous Decomposition Products:DECOMPOSES WITH HEAT. DECOMPOSITION PRODUCTS FORMED: SO2.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

Disposal

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

Toxicology

Toxicological Information:TOLUENE: INHALATION, RATS, 4,000 PPM, 4 HR. ALC; SKIN ABSORPTION, RABBITS, LD50: 12,124 MG/KG; ORAL, RATS, LD50: 5,580 MG/KG. ISOPROPYL ALCOHOL: ORAL, RATS, LD50: 4,700 MG/KG; INHALATION, RATS, LC50: 16,000 PPM, 4 HR; SKIN ABSORPTION, LD50: 12,000 MG/KG. AROMATIC 150: INHALATION, RATS, LC50: >11.67 MG/L; SKIN ABSORPTION, RABBITS, LD50: >3,160 MG/KG. (CONTD. FROM "MEDICAL CONDITIONS AGGRAVATED") OF EXCESSIVE EXPOSURES. EPIDEMIOLOGIC STUDIES DEMONSTRATE SIGNIFICANT RISK OF NEUROLOGICAL EFFECTS ATTRIBUTABLE TO TOLUENE OVEREXPOSURE.

Other Information

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.

Ecology

Ecological:ECOTOXICOLOGICAL INFORMATION: 96 HOUR LC50, FATHEAD MINNOWS: 12 MG/L. (CONTD. FROM "SPILL RELEASE") UNLESS RELEASED MATERIAL IS IMMEDIATELY CLEANED UP FOR REPROCESSING, RECYCLING OR REUSE, A RELEASE OF 100 LBS MAY TRIGGER REPORTING REQUIREMENTS OF CERCLA SECTION 103.

Transport

Transport Information:DOT: PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (CONTAINS TOLUENE & ISOPROPANOL); HAZARD CLASS: 3; UN 1993; PKG: I I; DOT LABEL: FLAMMABLE LIQUID. I.M.O.: PROPER SHIPPING NAME: FLAMMABLE LIQUID, N .O.S. (CONTAINS TOLUENE & ISOPROPANOL); HAZARD CLASS: 3.2; UN 1993; PKG: I I; LABEL: FLAMMABLE LIQUID; SPECIAL INFORMATION: FLASH POINT: 6 C (42 F); SHIPPING CONTAINERS: STEEL DRUMS: UN1A1/Y/100 (PHE NOLIC LINED); REPORTABLE QUANTITY: 1000 LB TOLUENE..

Regulatory

SARA Title III Information:SECTIONS 311, 312: ACUTE: YES; CHRONIC: NO; FIRE: YES; REACTIVITY: NO; PRESSURE: NO. DISCLOSURE OF TOLUENE (CAS #108-88-3) AND NAPHTHALENE (CAS # 91-20-3) AS TOXIC CHEMICALS IS REQUIRED UNDER SECTION 313 OF SARA OF 1986 AND 40 CFR PART 372.
Federal Regulatory Information:U.S FEDERAL GOVERNMENT; TSCA INVENTORY STATUS: REPORTED / INCLUDED.
State Regulatory Information:THIS PRODUCT CONTAINS TRACE QUANTITIES (TO CAUSE CANCER. NPCA - HMIS RATING:HEALTH: 2; FLAMMABILITY: 4; REACTIVITY: 1. PERSONAL PROTECT ION RATING TO BE SUPPLIED BY USER DEPENDING ON USE CONDITIONS.