

STADIS 450 CONDUCTIVITY IMPROVER (DINNSA STABILIZER)

MSDS Number

CKBFR

National Stock Number

6850-01-097-2060

Product Name

STADIS 450 CONDUCTIVITY IMPROVER (DINNSA STABILIZER)

Manufacturer

OCTEL STARREON LLC

Product Identification

Product ID:STADIS 450 CONDUCTIVITY IMPROVER (DINNSA STABILIZER)

MSDS Date:11/03/1999

FSC:6850

NIIN:01-097-2060

MSDS Number: CKBFR

Responsible Party

OCTEL STARREON LLC

8375 S WILLOW ST 5TH FLOOR

LITTLETON , CO 80124

US

Emergency Phone: 1-800-873-8711

Info Phone: 303-566-0558 / FAX 303-792-5668

Preparer: AL HOMAN

Cage: 1ML15

Contractor

SDB CONSULTANTS LTD

GRETNA, LA 70056

US

504-366-9105

Cage: 0PGK2

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

OSHA PELsee 1910.1028

ACGIH TLV: 32 MG/M3;10 PPM

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

OSHA PELNOT PROVIDED

ACGIH TLV: NOT PROVIDED

NJ TRADE SECRET REGISTRY #35-1927749-5037

OSHA PELNOT PROVIDED

ACGIH TLV: NOT PROVIDED

DINONYLNAPHTHYLSULFONIC ACID (DINNSA)

CAS: 25322-17-2

OSHA PELNOT PROVIDED

ACGIH TLV: NOT PROVIDED

AROMATIC 150

CAS: 64742-94-5

RTECS: WF3100000

OSHA PELNONE ESTABLISHED

ACGIH TLV: NONE ESTABLISHED

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:SKIN: MAY CAUSE IRRITATION AND
DEFATTING. RARE INSTANCES OF SENSITIZATION. EYES: MAY CAUSE
IRRITATION. INHALATION: MAY CAUSE IRRITATION OF THE UPPER
RESPIRATORY PASSAGES OR POSSIBLY MODEST INITIAL SYMPTOMS FOLLOWED
IN HOURS BY SEVERE SHORTNESS OF BREATH REQUIREING PROMPT MEDICAL
ATTENTION. MAY CAUSE TEMPORARY NERVOUS SYSTEM DEPRESSION WITH

ANESTHETIC EFFECTS. INGESTION: MAY CAUSE GASTROINTESTINAL TRACT IRRITATION WITH UPPER ABDOMINAL PAIN. PULMONARY EDEMA OR BLEEDING, DROWSINESS, CONFUSION, COMA AND SEIZURES MAY OCCUR IN MORE SERIOUS CASES. MAY CAUSE LIVER OR KIDNEY DAMAGE.

Explanation of Carcinogenicity: OCTEL STARREON CONTROLS THE FOLLOWING MATERIALS AS POTENTIAL CARCINOGENS: BENZENE.

Effects of Overexposure: SKIN: DISCOMFORT OR RASH. EYES: DISCOMFORT, TEARING, OR BLURRING OF VISION. INHALATION: COUGHING & DISCOMFORT, POSSIBLE SEVERE SHORTNESS OF BREATH. NAUSEA, HEADACHE OR WEAKNESS, DIZZINESS, CONFUSION, INCOORDINATION & LOSS OF CONSCIOUSNESS.

INGESTION: "HEART BURN," NAUSEA, VOMITING & DIARRHEA. HOWEVER, MAY HAVE NO SYMPTOMS. ASPIRATION INTO LUNGS MAY CAUSE "CHEMICAL PNEUMONIA," WHICH WOULD CAUSE COUGHING, GASPING, CHOKING, SHORTNESS OF BREATH, BLUISH DISCOLORATION OF THE SKIN, RAPID BREATHING & HEART RATE & FEVER. MAY CAUSE IRREGULAR PULSE, PALPITATIONS OR INADEQUATE CIRCULATION, OR FATALITY.

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 OF EXCESSIVE EXPOSURE.

First Aid

First Aid: INHALATION: IF INHALED, 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: IN CASE OF 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.

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. 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.

Accidental Release

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

Neutralizing Agent: NOT RELEVANT

Handling

Handling and Storage Precautions: AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. WASH THOROUGHLY AFTER HANDLING. STORE IN A WELL VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

Other 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.

Exposure Controls

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

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

Protective Gloves: IMPERVIOUS GLOVES

Eye Protection: SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES.

Other Protective Equipment: FOR SKIN CONTACT HAVE AVAILABLE AND WEAR IMPERVIOUS APRON, PANTS AND JACKET. WEAR A FACE SHIELD WHERE THE POSSIBILITY EXISTS FOR FACE CONTACT DUE TO SPLASHING/ SPRAYING OF MATERIAL.

Work Hygienic Practices: NOT PROVIDED

Supplemental Safety and Health

KEEP CONTAINER TIGHTLY CLOSED. ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED. CNS = CENTRAL NERVOUS SYSTEM. GI = GASTROINTESTINAL. SCBA = SELF CONTAINED BREATHING APPARATUS. AEL = ACCEPTABLE EXPOSURE LIMIT.

Chemical Properties

HCC: F2

NRC/State Lic Num: NOT RELEVANT

Boiling Pt: =90.C, 194.F

B.P. Text: @760 MM HG; IBP

Melt/Freeze Pt: M.P/F.P Text: NOT PROVIDED

Decomp Temp: Decomp Text: NOT PROVIDED

Vapor Pres: NOT PROVIDED

Spec Gravity: 0.92 60/60F(16/16C)

Viscosity: NOT PROVIDED

Evaporation Rate & Reference: >1 (BUTYL ACETATE=1)

Solubility in Water: SLIGHT

Appearance and Odor: CLEAR DARK AMBER LIQUID, TOLUENE ODOR.

Percent Volatiles by Volume: NOT PROVIDED

Corrosion Rate: NOT PROVIDED

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.

Disposal

Waste Disposal Methods: TREATMENT, STORAGE, TRANSPORTATION, AND DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL 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.

Toxicology

Toxicological Information: TOLUENE: INHALATION 4 HOUR ALC- 4,000 PPM IN RATS; SKIN ABSORPTION LD50- 12,124 MG/KG RABBITS; ORAL LD50- 5,580 MG/KG IN 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.

Other Information

Disclaimer (provided with this information by the compiling agencies):

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Ecology

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

Transport

Transport Information:DOT: FLAMMABLE LIQUID, NOS (CONTAINS TOLUENE & ISOPROPANOL), 3, UN1993, PG II. DOT LABEL: FLAMMABLE LIQUID. STEEL DRUMS: UN1A1/Y/100 (PHENOLIC LINED).

Regulatory

SARA Title III Information:SARA TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312: ACUTE AND FIRE. TOLUENE AND NAPHTHALENE ARE LISTED AS A TOXIC CHEMICAL UNDER SECTION 313.

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

State Regulatory Information:THIS PRODUCT CONTAINS TRACE QUANTITIES (TO CAUSE CANCER.