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Material Safety Data Sheet

SECTION I - Material Identity

SECTION II - Manufacturer's Information

SECTION III - Physical/Chemical Characteristics

SECTION IV - Fire and Explosion Hazard Data

SECTION V - Reactivity Data

SECTION VI - **Health** Hazard Data

SECTION VII - Precautions for Safe Handling and Use

SECTION VIII - Control Measures

SECTION IX - Label Data

SECTION X - Transportation Data

SECTION XI - Site Specific/Reporting Information

SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name	
Part Number/Trade Name	STADIS 450 CONDUCTIVITY IMPROVER
National Stock Number	6850010972060
CAGE Code	18873
Part Number Indicator	A
MSDS Number	191044
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	OCTEL STARREION LLC
Street	8375 S WILLOW ST
City	LITTLETON
State	CO
Country	US
Zip Code	80124
Emergency Phone	800-424-9300 CHEMTREC
Information Phone	800-873-8711

MSDS Preparer's Information

MSDS Preparer Name	D.C.ZIMMERMAN
Date MSDS Prepared/Revised	03NOV99
Date of Technical Review	07NOV89
Active Indicator	Y

Alternate Vendors

Vendor #1 Name	CHEMICAL COMMODITIES INC
Vendor #1 CAGE	60777
Vendor #5 CAGE	BGLQW

SECTION III - Physical/Chemical Characteristics

Specification Number	N/R
Specification Type/Grade/Class	N/R
Hazard Storage Compatibility Code	F3-F2
NRC License Number	N/R
Net Propellant Weight (Ammo)	NR
Appearance/Odor	CLEAR, DARK AMBER LIQUID
Boiling Point	194 F
Melting Point	NR
Vapor Pressure	UNKNOWN
Vapor Density	7.79/GAL
Specific Gravity	.92
Decomposition Temperature	NR
Evaporation Rate	NR
Solubility in Water	SLIGHT
Chemical pH	N/K
Corrosion Rate	N/K
Container Pressure Code	1
Temperature Code	4
Product State Code	L

SECTION IV - Fire and Explosion Hazard Data

Flash Point	42
Flash Point Method	PMCC
Lower Explosion Limit	UNKNOWN
Upper Explosion Limit	UNKNOWN
Extinguishing Media	WATER SPRAY, FOAM, DRY CHEMICAL, CO2
Special 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
Unusual Fire/Explosion Hazards	EVACUATE PERSONNEL TO SAFE AREA. WEAR SCBA. WEAR FULL PROTECTIVE EQUIPMENT. COOL TANK/CONTAINER WITH WATER SPRAY

SECTION V - Reactivity Data

Stability	YES
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Stability Conditions to Avoid	HIGH TEMPERATURES, SPARKS, OPEN FLAMES
Materials to Avoid	STRONG OXIDIZING AGENTS
Hazardous Decomposition Products	CARBON DIOXIDE, CARBON MONOXIDE, SULFUR DIOXIDE
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	UNK
LD50 - LD50 Mixture	UNKNOWN

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	ACUTE:MODERATE TO SEVERE IRRITATION OF SKIN,EYES AND RESPIRATORY TRACT;HEADACHE,NAUSEA,VOMITING. CHRONIC:DERMATITIS (NO OTHER DATA AVAILABLE)
Carcinogenicity: NTP	NO
Carcinogenicity: IARC	NO
Carcinogenicity: OSHA	NO
Explanation of Carcinogenicity	MFR CLAIMS THAT NO INGREDIENT IS LISTED AS A CARCINOGEN BY ABOVE OR ACGIH. BENZENE IN TRACE AMOUNTS, REPORTING NOT REQUIRED
Symptoms of Overexposure	SIMILAR TO TOLUENE. EYE:IRRIT. SKIN:IRRIT.,POSSIBLE DERMATITIS. INHALED:ANESTHESIA,HEADACHE,NAUSEA. INGESTED:G/I IRRITATION,NAUSEA, VOMITING
Medical Cond. Aggravated by Exposure	PRE-EXISTING CONDITIONS MAY BE WORSEN
Emergency/First Aid Procedures	SKIN:WASH W SOAP/WATER.EYES:FLUSH W WATER FOR 15 MIN.GET MED ATTN.INHAL:REMOVE TO FRESH AIR.GET MED ATTN.INGEST:DO NOT INDUCE VOMITING.KEEP PERSON WARM & QUIET.CALL A DR

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	SMALL SPILL:SOAK UP W SAND/EARTH.MAY BE WIPED UP W KEROSENE SOLVENT &/OR SOAPY WATER USING PROPER PROTEC EQUIP.LG SPILL:ELIM ALL IGN SOURCES.STOP SPILL AT SOURCE.DIKE SPILL AREA & PUMP LIQUID TO SALVAGE TANK.SOAK UP REMAINDER LIQ ON ABSORBENT FOR DIS
Waste Disposal Method	DESTROY BY BURNING/LIQUID INCINERATION IAW LOCAL REGULATIONS PROD ABSORBED ON ABSORBENT MATERIAL MAY BE DEPOSITED IN A LANDFILL IAW LOCAL,STATE & FED REGS
Handling and Storage Precautions	STORE IN A COOL/DRY PLACE.KEEP CONTAINER CLOSED,AWAY FROM HEAT,SPARKS & SOURCE OF IGNITIONS.USE PROTECTIVE EQUIP TO AVOID SKIN/EYE CONTACT
Other Precautions	EMPTY CONTNR MAY BE HAZ. OBSERVE

ALL SAFETY PRECAUTIONS GIVEN IN
THIS DATA SHEET.USE IN WELL
VENTILATED AREA.WASH HANDS
THOROUGHLY AFTER USE/HANDLING

SECTION VIII - Control Measures

Respiratory Protection	SELF-CONTAINED BREATHING APPARATUS
Ventilation	LOCAL:GOOD VENTILATION
Protective Gloves	RUBBER
Eye Protection	SAFETY/CHEMSPLASH GOGGLES
Other Protective Equipment	IMPERVIOUS CLOTHING & BOOTS TO AVOID SKIN CONTACT

SECTION IX - Label Data

Protect Eye	YES
Protect Skin	YES
Protect Respiratory	YES
Chronic Indicator	YES
Contact Code	SLIGHT
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	TARGET ORGANS: CENTRAL NERVOUS SYSTEM, LIVER, KIDNEY

SECTION X - Transportation Data

Container Quantity	1
Unit of Measure	GL

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	2.8406
Volatile Organic Compounds (G/L)	340.4142

SECTION XII - Ingredients/Identity Information

Ingredient #	01
Ingredient Name	BENZENE, METHYL- (40-50%)
CAS Number	108883
Percent	50
OSHA PEL	NR
ACGIH TLV	NR
Recommended Limit	NONE SPECIFIED
Ingredient #	02
Ingredient Name	BENZENE (<0.0595%)
CAS Number	71432
Percent	0.0595
OSHA PEL	NR
ACGIH TLV	NR

Recommended Limit	NONE SPECIFIED
Ingredient #	03
Ingredient Name	2-PROPANOL (0-5%)
CAS Number	67630
Percent	5
OSHA PEL	NR
ACGIH TLV	NR
Recommended Limit	NONE SPECIFIED
Ingredient #	04
Ingredient Name	NJ TREADE SECRET REGISTRY #35-1927749-5457 (1-10%)
CAS Number	1002
Proprietary	YES
Percent	10
OSHA PEL	NR
ACGIH TLV	NR
Recommended Limit	NONE SPECIFIED
Ingredient #	05
Ingredient Name	NJ TRADE SECRET REGISTRY #35-1927749-5037 (10-20%)
CAS Number	1002
Percent	20
OSHA PEL	NR
ACGIH TLV	NR
Recommended Limit	NONE SPECIFIED
Ingredient #	06
Ingredient Name	DINONYLNAPHTHYLSULFONIC ACID (DINNSA) (5-15%)
CAS Number	25322172
Percent	15
OSHA PEL	NR
ACGIH TLV	NR
Recommended Limit	NONE SPECIFIED
Ingredient #	07
Ingredient Name	SOLVENT NAPHTHA, PETROLEUM, HEAVY AROM. (15-25%)
CAS Number	64742945
Percent	25
OSHA PEL	NR
ACGIH TLV	NR
Recommended Limit	NONE SPECIFIED
Ingredient #	08
Ingredient Name	NAPHTHALENE (0-3%)
CAS Number	91203
Percent	3
OSHA PEL	NR
ACGIH TLV	NR
Recommended Limit	NONE SPECIFIED
