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Product ID:7280, SIFCO DALIC SOLUTION AERONIKL 250 (SULFAMATE NICKEL) MSDS Date:03/13/2000 FSC:6850 NIIN:01-292-9738 Status Code:A MSDS Number: CLKZB === Responsible Party === Company Name: SIFCO SELECTIVE PLATING DIV OF SIFCO INDUSTRIES INC. Address: 5708 SCHAAF ROAD City:CLEVELAND State:OH ZIP:44131-1394 Country:US Info Phone Num:216-524-0099/ FAX: -6331 Emergency Phone Num:800-424-9300 216-524-0099 Resp. Party Other MSDS Num.: MSDS # 7280 Preparer's Name: WERNER A. EHRENSCHEIDER Chemtrec Ind/Phone:(800)424-9300 CAGE:11924 === Contractor Identification === Company Name: SIFCO SELECTIVE PLATING DIV OF SIFCO INDUSTRIES INC. Address: 5708 SCHAAF ROAD Box:City:CLEVELAND State:OH ZIP:44131-1394 Country:US Phone:216-524-0 099/ FAX: -6331 Contract Num:SP0450-99-M-C683 CAGE:11924

Ingred Name:NICKEL (SARA 313) (CERCLA) CAS:7440-02-0 RTECS #:QR5950000 Minumum % Wt:5. Maxumum % Wt:10. Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9596

Ingred Name:SULFAMIC ACID CAS:5329-14-6 RTECS #:WO5950000 Minumum % Wt:20. Maxumum % Wt:30. Other REC Limits:NONE RECOMMENDED

Ingred Name:BORIC ACID CAS:10043-35-3 RTECS #:ED4550000 % Wt:1. Maxumum % Wt:5. Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG BORATES/M3 ACGIH TLV:5 MG BORATES/M3

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:55. Maxumum % Wt:74. Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:TA

RGET ORGANS: SKIN, EYES, NASAL CAVITY,

LUNGS, KIDNEYS AND LIVER. EYE: CAUSES EYE IRRITATION, BURNS POSSIBLE. SKIN CONTACT: MAY CAUSE SKIN IRRITATION. MAY CAUSE SKIN SENSITIZATION, AND ALLERGIC REACTIO N (NICKEL RASH). INHALATION: MAY CAUSE SNEEZING, NASAL DISCHARGE, COUGHING, HEADACHES, DIZZINESS, NAUSEA, FATIGUE OR DIFFICULTY IN BREATHING. IRRITATING TO THE EYES, NOSE THROAT, AND LUNGS. INGESTION: MAY CAUSE BURNS TO MUCOUS MEMBRANES. CAN IRRITATE MOUTH, THROAT, AND ST

OMACH. MAY

CAUSE LIVER DAMAGE WITH JAUNDICE, KIDNEY AND GASTROINTESTINAL DAMAGE.

Explanation of Carcinogenicity:NICKEL COMPOUNDS ARE LISTED BY IARC & NTP AS CARCINOGENS. MFR LISTS AS OSHA REGULATED

Effects of Overexposure:EYE: CAUSES EYE IRRITATION, BURNS POSSIBLE. SKIN CONTACT: MAY CAUSE SKIN IRRITATION. MAY CAUSE SKIN SENSITIZATION, AND ALLERGIC REACTION (NICKEL RASH). INHALATION: MAY CAUSE SNEEZING, NASAL DISCHARGE, COUGHING, HEADACHES, DIZZINESS, NAUSEA, FATIGUE O

R DIFFICULTY IN BREATHING. IRRITATING TO THE EYES, NOSE THROAT, AND LUNGS. INGESTION: MAY CAUSE BURNS TO MUCOUS MEMBRANES. CAN IRRITATE MOUTH, THROAT, AND STOMACH. MAY CAUSE LIVER DAMAGE WITH JAUNDICE, KIDNEY AND GASTROINTESTINAL DAMAGE. Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN & EYE CONDITIONS,

RESPIRATORY SYSTEM DISORDERS, PRE-EXISTING SENSITIZATION TO NICKEL.

First Aid: EYES: HOLD EYELIDS APART

AND FLUSH EYES WITH PLENTY OF WATER AT LEAST 15 MINUTES. SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER AT LEAST 15 MINUTES REMOVING CONTAMINATED CLOTHING AND SHOES. THOROU GHLY DECONTAMINATE (OR DISCARD) CLOTHING AND SHOES. INHALATION: REMOVE TO FRESH AIR. LAY VICTIM DOWN, LEGS RAISED. LOOSEN TIGHT CLOTHING, COVER WITH BLANKET. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRAT ION. IF BREATHING DIFFICULT, GIVE OXYGEN. INGESTION: DO NOT INDUCE VOMITING, UNLESS ADVISED BY EMS. GIVE VICTIM LARGE QUANTITIES OF WATER OR MILK. GIVE MILK OF MAGNESIA OR FRESH EGGS. NEVER GIVE ANYT HING BY MOUTH TO UNCONSCIOUS PERSON. Flash Point:NONE Autoignition Temp: Autoignition Temp Text: N.A. Lower Limits:NONE **Upper Limits:NONE** Extinguishing Media:ALL. Fire Fighting Procedures: NIOSH/MSHA APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS. STRUCTURAL FIRE FIGHTERS PROTECTIVE CLOTHING MA Y NOT PROVIDE ADEQUATE PROTECTION. Unusual Fire/Explosion Hazard: CONTAINERS CAN BUILD-UP PRESSURE & BURST IF EXPOSED TO HEAT (FIRE). CONTACT WITH METALS MAY FORM FLAMMABLE HYDROGEN GAS.WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. DIKE AREA FOR LATER DISPOSAL. Spill Release Procedures: ISOLATE & DENY ENTRY. DO NOT TOUCH SPILLED MATERIAL. ELIMINATE ALL SOURCES OF IGNITION. NOTIFY FACILITY EMERGENCY COORDINATOR . PROVIDE MAXIMUM VENTILATION. KEEP PRODUCT OUT OF SURFACE WATERS/SEWERS. WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE). CAREFULLY MOP UP OR VACUUM INTO PLASTIC CONTAINER. RELEASE OF REPORTABLE QUANTITY (RQ) REQUIRES NOTIFICATION OF PROPER AUTHORITIES. Neutralizing Agent:SODA ASH AND CRUSHED LIMESTONE.

Handling and Storage Precautions: KEEP CONTAINER TIGHTLY CLOSED IN UPRIGHT POSITION. STORE AT 60-90F AW

AY FROM INCOMPATIBLE MATERIALS

AND PHYSICAL HAZARDS. DO NOT REMOVE OR DEFACE LABELS. USE "BUDDY SYSTEM" WHEN WORKING WITH CHEMICALS . DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DO NOT BREATH VAPOR, MIST OR GAS.

Other Precautions: USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. TRIPLE RINSE CONTAINER CLEAN BEFORE DISCARDING. PUT NOTHING ELSE IN THIS CONTAINER.

Respiratory Protection: IF ENGINEERI

NG CONTROLS ARE NOT FEASIBLE, THE

RESPIRATORY PROTECTION PROGRAM MUST COMPLY WITH OSHA'S 29 CFR 1910.134, 30 CFR 11 AND ANSI Z88.2 REQUIREMENTS.

Ventilation: LOCAL EXHAUST IS REQUIRED TO MEET THE PERMISSABLE EXPOSURE LIMIT (PEL) DURING THE USE OF THIS PRODUCT.

Protective Gloves:NITRILE, NEOPRENE, VINYL, LATEX.

Eye Protection: FACE SHIELD AND SAFETY GLASSES W/SIDE SHIELDS OR SPLASH-PROOF CHEMICAL GOGGLES.

Other Protective Equipment: EYE WASH STATION, SAFETY SHOWER, WASHING FACILI

TIES NEAR WORK AREA, IMPERVIOUS BOOTS, APRON, PROTECTIVE CLOTHING AS REQUIRED BY JOB CONDITIONS.

Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

HCC:C1 Boiling Pt:=100.C, 212.F Melt/Freeze Pt: