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HELION INDUSTRIES INC -- 53009A CORROSION INHIBITOR, LIQUID COOLING SYSTEM - 6850-01-287-8067

Product ID:53009A CORROSION INHIBITOR, LIQUID COOLING SYSTEM MSDS Date:03/01/1999 FSC:6850 NIIN:01-287-8067 Status Code:A **MSDS Number: CJDJJ** === Responsible Party === Company Name: HELION INDUSTRIES INC Address:681 MAIN ST, BLDG 12 City:BELLEVILLE State:NJ ZIP:07109 Cou ntry:US Info Phone Num:973-759-0105 Emergency Phone Num:800-255-3924 Resp. Party Other MSDS Num.:041297 CAGE:0AP29 === Contractor Identification === Company Name: HELION INDUSTRIES INC Address:681 MAIN ST, BLDG 12 Box:City:BELLEVILLE State:NJ ZIP:07109 Country:US Phone:800-327-3456 Contract Num:SP0450-99-M-C079 CAGE:0AP29 Company Name: QUALCHEM CO DIV OF GREEN GLOBE INDUSTRIES INC Address:600 MEADOWLANDS PKY NO 20 Box:City:SECAUCUS State:NJ ZIP:07094 Country:US Phone:800-327-3456 FAX: 201-842-130

7 Contract Num:SP0450-99-M-NA29 CAGE:07XT7 Company Name:QUALCHEM CO DIV OF GREEN GLOBE INDUSTRIES INC Address:600 MEADOWLANDS PKY NO 20 Box:City:SECAUCUS State:NJ ZIP:07094 Country:US Phone:800-327-3456 FAX: 201-842-1307 Contract Num:SP0450-99-M-NF96 CAGE:07XT7

Ingred Name:SODIUM 2-MERCAPTOBENZOTHIAZOLE (AS 50% SOLUTION) CAS:2492-26-4 = Wt:3.

Ingred Name:POTASSIUM SILICATE CAS:1312-76-1 = Wt:4.6

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 = Wt:63.4

Ingred Name:SODIUM METABORATE OCTAHYDRATE CAS:35585-58-1 = Wt:29.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE: MAY CAUSE IRRITATION OR BURNS ON PROLONGED CONTACT. INHAEL: HIGH VAPOR CONCENTRATIONS MAY CAUSE DIZZINESS OR NAUSEA AND OTHER CENTRAL NERVOUS SYST EFFECTS .SKIN: PROLONG CONTACT MAY IRRITATE SKIN OR DRY SKIN CAUSING DERMATITIS. INGESTION: MAY CAUSE IRRITATION TO DIGESTIVE TRACT RESULTING IN NAUSEA &/OR VOMITING.

Explanation of Carcinogenicity:THIS PRODUCT DOES OT CONTAIN ANY INGREDIENTS DESIGNATED BY IARC/NTP/ACGIH/OSHA AS PORBABLE CARCINOGEN.

First Aid:INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN SEEK MEDICAL HELP. EYE: FLUSH WITH WATER, SEEK MED HELP. SKIN: FLUSH

WITH WATAER, REMOVE CONTAMINATED CLOTHS. IF SKIN IRRITATION DEVELOPS SEEK MEDIC AL ASSISTANCE. INGESTION: GIVE SEVERAL GLASSES OF WTAER, DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION. NOTE TO DOCTOR: ALL TREATMENTS SHOULD BE BASED ON OBSERVED SIGNS & SYMPTOMS OF DISTRESS. THE PR INCIPAL MANIFESTATION OF OVEREXPO IS CORROSION OR BURNS.

Flash Point Method:TCC Flash Point:NONE TO BOILING Lower Limits:N /APPLICABLE Upper Limits:N/APPLICABLE Extinguishing Media:WATER FOG,FOAM,CARBON DIOXIDE,DRY CHEMICAL. Fire Fighting Procedures:NOT COMBUSTIBLE. SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE SHIELD. Unusual Fire/Explosion Hazard:CONTAINERS CAN RUPTURE & EXPLODE UNDER FIRE CONDITIONS DUE TO PRESSURE & VAPOR BUILDUP

Spill Release Procedures: ABSORB ON FIRE RETARDANT MATERIALL. PICK UP & DISPOSE OF AT APPROPRIATE WA STE FACILITY IN ACCORDANCE TO LOCAL, STATE OR FEDERAL REGULATIONS. REPORT SPILL TO APPROPRIATE AUTHORITIES.

Handling and Storage Precautions: KEEP IN COOL DRY PLACE. Other Precautions: CLEAR ALKALINE LIQUID WITH BLAND ODOR. MATERIAL CONTAINS SODIUM METABORATE-8H2O, 2-MERCAPTOBENZOTRIAZOLE AND SODIUM METASILACATE, USE CAUTION WHEN HANDLING.

======= Exposure Controls/Personal Protection ==========

Resp

iratory Protection:NONE NEEDED UNDER NORMAL CONDITIONS.
Ventilation:KEEP CONTAINERS CLOSE WHEN NOT IN USE.DO NOT STORE NEAR FOOD.
Protective Gloves:CHEMICAL RESISTANT GLOVES.
Eye Protection:GOGGLES AND OR SAFETY GLASSES WITH FULL FACE SHIELD.
Supplemental Safety and Health
MATERIAL CONTAINS SODIUM METABORATE-8H20, 2-MERCAPTOBENZOTRIAZOLE AND SODIUM METASILCATE USE CAUTION WHEN HANDLING.

HCC:B3 Boiling Pt:=100.C, 212. F Melt/Freeze Pt:=-34.4C, -30.F Vapor Pres:17MM OF HG Vapor Density:NOT ESTABL Spec Gravity:1.202 15.5/15.5C pH:12.5 /-0.5 Viscosity:14CPS Evaporation Rate & amp; Reference:1(WATER=1) Solubility in Water:COMPLETE Appearance and Odor:CLEAR LIQUID WITH BLAND ODOR Percent Volatiles by Volume:~75%

Stability Indicator/Materials to Avoid:YES ACIDS, REDOX AGENTS. Hazardous Decomposition Products:OXIDES OF SULFUR AND NITROGEN.

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Toxicological Information:EYE:MAY PRODUCE REDNESS,BURNING,STINGING.PROL &/OR REP CONTACT MAY CAUSE CHEM CONJUNCTIVITIS WHICH MAY CAUSE BLINDNESS.SKIN:MAY CAUSE REDNESS,FLAKING,DRYING.PROL &/OR REP CONTACT MAY CAUSE DERM&BURNS. INGEST:MAY CAUSE NAU,VOMIT,DIARR,IRRIT/BURNS TO DIGESTIVE SYS.INHAL:MAY CAUSE IRRIT &/OR BURNS TO BRONCHIAL MEMBRANES &/OR PULM EDEMA. PROD DOESNT CONTAIN TERATOGENIC INGREDS NOR ANY KNOWN

MUTAGENIC I NGREDS.

Ecological: ENVIROMENTAL FATE & EFFECTS ARE NOT ESTABLISHED. PRODUCT CONTAINS SURFACTANTS WHICH MAY CAUSE LOCALIZE FISH KILL, BUT NO PERSISTENT EFFECTS WILL RESULT.

Waste Disposal Methods: THE PRODUCT IS SUITABLE FOR DISPOSAL BY AN APPROVED FACILITY OR CAN BE DISPOSED OF ANY GOVERNMENT APPROVED WASTE SITE.

Transport Information:PER MSDS: DOT SHIPPING NAME: CHEMICALS N.O.I., DOT HAZ CLASS/UN/PRODUCT RQ:N/A. DOT LABEL-NOT REGULATED-NONE REQUIRED.

SARA Title III Information:SEC 302 EXT HAZ SUBST/SEC 311/312 HAZ CAT/SEC 313 TOX CHEMS-NONE.RCRA STATUS:NONE PER 40CFRPART 261D.CERCLA RQ:NONE.

Federal Regulatory Information: TSCA STATUS: ALL INGREDIENTS ARE IN TSCA

INVENTORY.

State Regulatory Information:CALIFORNIA PROP 65:NONE OF PRODUCTS COMPOSING THIS MIXTURE IS LISTED UNDER PROP 65.NEW JERSEY RIGHT TO KNOWN INFO:WATER (7732-18-5),SODIUM MERCAPTOBENZOTIAZOLE (2494-26-4), SODIUM METABORATE OCTAHYDRA TE (35585-58-1), POTASSIUM SILICATE (1312-76-1).

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