

HELION INDUSTRIES INC -- 041297, QUALCHEM 53009A CORROSION INHIBITOR MIL-A-53009A --
6850-01-287-8067

===== Product Identification =====

Product ID:041297, QUALCHEM 53009A CORROSION INHIBITOR MIL-A-53009A

MSDS Date:01/01/1998

FSC:6850

NIIN:01-287-8067

Status Code:A

MSDS Number: CLRZB

=== Responsible Party ===

Company Name:HELION INDUSTRIES INC

Address:681 MAIN ST, BLDG 12

City:BELLEVILLE

State:NJ

ZIP:07109

Country:US

Info Phone Num:973-759-0200/800-327-3456

Emergency Phone Num:800-255-3924

Resp. Party Other MSDS Num.:041297

Preparer's Name:NOT PROVIDED

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

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: 201-842-1307
Contract Num:SP0450-02-M-M228
CAGE:07XT7

=====
Composition/Information on Ingredients
=====

Ingred Name:SODIUM MERCAPTOBENZOTHIAZOLE
CAS:2492-26-4
Other REC Limits:NOT PROVIDED

Ingred Name:POTASSIUM SILICATE
CAS:1312-76-1
Other REC Limits:NOT PROVIDED

Ingred Name:SODIUM METABORATE
CAS:1330-43-4
RTECS #:ED4588000
Other REC Limits:NOT PROVIDED
ACGIH TLV:1 MG/M3

Ingred Name:WATER
CAS:07732-18-5
Other REC Limits:NOT PROVIDED

=====
Hazards Identification
=====

LD50 LC50 Mixture:NOT PROVIDED

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE: MAY CAUSE IRRITATION OR BURNS ON PROLONGED CONTACT. INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE DIZZINESS OR NAUSEA AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. SKIN: PROLONG CONTACT MAY IRRITATE SKIN OR DRY SKIN CAUSING DERMATITIS. INGESTION: MAY CAUSE IRRITATION TO DIGESTIVE TRACT RESULTING IN NAUSEA AND/OR VOMITING.

Explanation of Carcinogenicity:THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENTS DESIGNATED BY IARC/NTP/ACGIH/OSHA AS PROBABLE CARCINOGEN.

Effects of Overexposure:EYE: MAY CAUSE IRRITATION OR BURNS ON PROLONGED CONTACT. INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE DIZZINESS OR NAUSEA AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. SKIN: PROLONG CONTACT MAY IRRITATE SKIN OR DRY SKIN. INGESTION: MAY CAUSE IRRITATION TO DIGESTIVE TRACT RESULTING IN NAUSEA AND/OR VOMITING.

NG.

Medical Cond Aggravated by Exposure:NOT PROVIDED

===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN. SEEK MEDICAL ATTENTION. EYE: FLUSH WITH WATER, SEEK MEDICAL ATTENTION. SKIN: FLUSH WITH WATER, REMOVE CONTAMINATED CLOTHES. IF SKIN IRRITATION OCCUR S SEEK MEDICAL ASSISTANCE. INGESTION: GIVE SEVERAL GLASSES OF WATER, DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION. NOTE TO PHYSICIAN: ALL TREATMENTS SHOULD BE BASED ON OBSERVED SIGNS AND SYMPTOMS OF DISTRESS. THE PRINCIPAL MANIFESTATION OF OVEREXPOSURES IS CORROSION OR BURNS.

===== Fire Fighting Measures =====

Flash Point Method:TCC
Flash Point:NONE TO BOILING
Extinguishing Media:WATER FOG, FOAM, CARBON DIOXIDE, DRY CHEMICAL.
Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE SHIELD. USE WATER TO COOL FIRE EXPOSED CONTAINERS.
Unusual Fire/Explosion Hazard:CONTAINERS CAN RUPTURE AND EXPLODE UNDER FIRE CONDITIONS DUE TO PRESSURE AND VAPOR BUILDUP

===== Accidental Release Measures =====

Spill Release Procedures:ABSORB ON FIRE RETARDANT MATERIAL. DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS. REPORT SPILL.
Neutralizing Agent:NOT PROVIDED

===== Handling and Storage =====

Handling and Storage Precautions:KEEP IN COOL DRY PLACE.
Other Precautions:NOT PROVIDED

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

Respiratory 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, SAFETY GLASSES, FULL FACE SHIELD RECOMMENDED
Other Protective Equipment:NOT PROVIDED
Work Hygienic Practices:NOT PROVIDED
Supplemental Safety and Health
ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOW

N. 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.

===== Physical/Chemical Properties =====

HCC:B1
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:=100.C, 212.F
Melt/Freeze Pt:=-1.1C, 30.F
M.P/F.P Text:ABOUT
Decomp Temp:Decomp Text:NOT PROVIDED
Vapor Pres:17MM OF HG
Vapor Density:NOT ESTABL
Spec Gravity:1.202
pH:12.5 +/-0.5
Viscosity:14CPS
Evaporation Rate & Reference:1(WATER=1)
Solubility in Water:COMPLETE
Appearance and Odor:CLEAR LIQUID WITH BLAND ODOR
Percent Volatiles by Volume:~75
Corrosion Rate:NOT PROVIDED

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
ACIDS, REDOX AGENTS.
Stability Condition to Avoid:NOT PROVIDED
Hazardous Decomposition Products:OXIDES OF SULFUR AND NITROGEN.

===== Toxicological Information =====

Toxicological Information:EYE:MAY PRODUCE REDNESS, BURNING, STINGING..PROLONGED AND/OR REPEATED CONTACT MAY CAUSE CHEMICAL CONJUNCTIVITIS WHICH MAY CAUSE BLINDNESS. SKIN:MAY CAUSE REDNESS, FLAKING, DRYING. PROLONGED AND/OR REPEATED CONTACT MAY CAUSE DERMATITIS AND BURNS. INGESTION: MAY CAUSE NAUSEA, VOMITING, DIARRHEA, IRRITATION/BURNS TO DIGESTIVE TRACT. INHALATION: MAY CAUSE IRRITATION AND/OR BURNS TO BRONCHIAL MEMBRANES AND/OR PULMONARY EDEMA. SUBCHRONIC: UNKNOWN.

==== Ecological Information =====

Ecological:ENVIRONMENTAL FATE AND EFFECTS ARE NOT ESTABLISHED. PRODUCT CONTAINS SURFACTANTS WHICH MAY CAUSE LOCALIZED FISH KILL, BUT NO PERSISTENT EFFECTS WILL RESULT.

==== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS. REPORT SPILL. SUITABLE FOR DISPOSAL BY AN APPROVED FACILITY OR CAN BE DISPOSED OF IN ANY GOVERNMENT APPROVED WASTE SITE.

==== MSDS Transport Information =====

Transport Information:D.O.T. SHIPPING NAME: CORROSIVE N.O.I., TECHNICAL SHIPPING NAME: CORROSIVE N.O.I. DOT HAZARD CLASS: NOT APPLICABLE. UN/NA NUMBER: NOT APPLICABLE. PRODUCT RQ (LBS): NOT APPLICABLE D.O.T. LABEL: NOT REGULATED - NON REQUIRED. D.O.T.PLACARD: CORROSIVE

==== Regulatory Information =====

SARA Title III Information:SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: NONE SECTION 311/312 HAZARDOUS CATEGORIES: NONE. SECTION 313 TOXIC CHEMICALS: NONE. CERCLA REPORTABLE QUANTITY: NONE
Federal Regulatory Information:TSCA STATUS: ALL INGREDIENTS ARE IN TSCA INVENTORY. RCRA STATUS: NONE PER 40 CFR P 261D
State Regulatory Information:CALIFORNIA PROPOSITION 65: NONE OF THE PRODUCTS COMPOSING THIS MIXTURE IS LISTED UNDER PROPOSITION 65. NEW JERSEY RIGHT TO KNOWN INFORMATION: SODIUM MERCAPTOBENZOTIAZOLE (24 92-26-4), SODIUM METABORATE (1330-43-4), POTASSIUM SILICATE (1312-76-1), WATER (7732-18-5).

==== 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.