

HELION INDUSTRIES INC -- 53009A CORROSION INHIBITOR, LIQUID COOLING SYSTEM --  
6850-01-160-3868

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

Product ID:53009A CORROSION INHIBITOR, LIQUID COOLING SYSTEM

MSDS Date:03/01/1999

FSC:6850

NIIN:01-160-3868

Status Code:A

MSDS Number: CJDTR

=== 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:SPO450-99-M-C538

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

Contract Num:SPO450-99-M-NA20

CAGE:07XT7

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Composition/Information on Ingredients  
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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.

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Hazards Identification  
=====Routes of Entry: Inhalation:YES Skin:YES Ingest  
ion:YES

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

Health Hazards Acute and Chronic:EYE:MAY CAUSE IRRIT OR BURNS ON  
PROLONGED CONTACT.INHAL:HIGH VAPOR CONCENTRATIONS MAY CAUSE  
DIZZINESS OR NAUSEA AND OTHER CENTRAL NERVOUS SYST  
EFFECTS.SKIN:PROLONG CONTACT MAY IRRIT SKIN OR DRY SKIN C AUSING  
DERMATITIS.INGEST:MAY CAUSE IRRITTO DIGESTIVE TRACT RESULTING IN  
NAUSEA &/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:IRRIT/BURNS ON PROLONGED  
CONTACT.INHAL:DIZZINESS/NAUSEA, OTHER CENTRAL NERV SYSTEM  
EFFECTS.SKIN:PROLONGED CONTACT MAY IRRIT SKIN,DRY SKIN CAUSING  
DERMATITIS.INGEST:IRRIT TO DIGESTIVE TRACT RESULTI NG IN NAUSEA  
AND/OR VOMITING.=====  
First Aid Measures  
=====First Aid:INHAL:REMOVE TO FRESH AIR.ADMINISTER OXYGEN SEEK MED  
HELP.EYE:FLUSH W/WATER,SEEK MED HELP. S

KIN:FLUSH W/WATER,REMOVE

CONTAMINATED CLOTHS.IF SKIN IRRIT DEVELOPS SEEK MED

ASSISTANCE.INGEST:GIVE SEVERAL GLASSES OF WATER,DO NOT INDUCE  
VOMIT.SEEK MED ATTN.NOTE TO DR:ALL TREATMENTS SHOULD BE BASED ON  
OBSERVED SIGNS & SYMPTOMS OF DISTRESS.THE PRINCIPAL MANIFESTATION  
OF OVEREXPOSURE IS CORROSION OR BURNS.

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

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.CONTAINERS CAN RUPTURE &

EXPLODE UNDER FIRE CONDITIONS DUE TO PRESSURE & VAPOR

BUILDUP.SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE SHIELD.

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

Spill Release Procedures:ABSORB ON FIRE RETARDANT MATERIAL.PICK UP &

DISPOSE OF AT APPROPRIATE WASTE FACILITY IN ACCORDANCE TO

LOCAL/STATE/FED REGULATIONS.REPORT SPILL TO APPROPRIATE

AUTHORITIES.

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

Handling and Storage Precautions:KEEP IN COOL DRY PLACE.

Other Precautions:CLEAR ALKALINE LIQUID WITH BLAND ODOR.MATERIAL

CONTAINS SODIUM METABORATE-8H<sub>2</sub>O, 2-MERCAPTOBENZOTRIAZOLE AND SODIUM  
METASILICATE, USE CAUTION WHEN HANDLING.

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

Respiratory Protection:NONE NEEDED UNDER NORMAL CONDITIONS.

Ventilation:N/A.KEEP CONTAINERS CLOSE WHEN NOT IN USE.

DO NOT STORE NEAR

FOOD.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:GOGGLES &/OR SAFETY GLASSES WITH FULL FACE SHIELD.

Work Hygienic Practices:MATERIAL CONTAINS SODIUM METABORATE-8H<sub>2</sub>O,

2-MERCAPTOBENZOTRIAZOLE & SODIUM METASILICATE USE CAUTION WHEN  
HANDLING.

Supplemental Safety and Health

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

HCC:B3

Boiling Pt:100.C, 212.F

Melt/Freeze Pt:-1.1C, 30.F

Vapor Pressure:17MM HG

Vapor Density:NOT ESTABLISHED

Specific Gravity

ity:1.202 15.5/15.5C

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%

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

Stability Indicator/Materials to Avoid:YES

ACIDS, REDOX AGENTS.

Hazardous Decomposition Products:OXIDES OF SULFUR AND NITROGEN.

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

Toxicological Information:E

YE: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 INGREDIENTS NOR ANY KNOWN MUTAGENIC INGREDIENTS.

===== Ecological Information =====

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

===== Disposal Considerations =====

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

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

Transport Information:PER MSDS:DOT SHIPPI

NG NAME:CHEMICALS N.O.I., DOT  
HAZ CLASS/UN/PRODUCT RQ:N/A.DOT LABEL-NOT REGULATED-NONE REQUIRED.

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===== Regulatory Information =====

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 OCTAHYDRATE (35585-58-1), POTASSIUM  
SILICATE (1312-76-1).

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