

QUALCHEM COMPANY -- E9500 -- 6850-01-036-1123

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

Product ID:E9500

MSDS Date:03/10/1998

FSC:6850

NIIN:01-036-1123

MSDS Number: CDMNB

=== Responsible Party ===

Company Name:QUALCHEM COMPANY

Address:BUILDING 12, 681 MAIN STREET

City:BELLEVILLE

State:NJ

ZIP:07108

Country:US

Info Phone Num:201-759-0105

Emergency Phone Num:201-759-0105

Preparer's Name:RALPH JOHNSON

CAGE:

KO516

=== 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 / HELION INDUSTRIES, INC.

Address:BLD 12, 681 MAIN STREET

Box:City:BELLEVILLE

State:NJ

ZIP:07109

Country:US

Phone:201-759-0105

CAGE:KO516

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:SP0450-98-M-CP32
CAGE:07XT7

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

Ingred Name:ETHYLENE GLYCOL (SARA 313) (CERCLA)
CAS:107-21-1
RTECS #:KW2975000
= Wt:62.
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:C 50 PPM,VAPOR; 9495
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
= Wt:38.
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mix
ture:LD50 (ORAL RAT) = 6000-13000 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:CLEAR LIQUID WITH GLYCOL ODOR. MAY BE
IRRITANT TO EYES, SKIN & RESPIRATORY TRACT. MAY BE FATAL IF
SWALLOWED. CHRONIC-IN VITRO MUTAGENICITY STUDIES WERE NEGATIVE.
Explanation of Carcinogenicity:ETHYLENE GLYCOL DID NOT CAUSE CANCER IN
LONG TERM ANIMAL STUDIES.
Effects of Overexposure:EYE:IRRITATION, BLURRE
D VISION MAY RESULT.
SKIN: ON PROLONGED CONTACT MAY IRRITATE SKIN AND CAUSE DERMATITIS.
INHALATION: ROOM TEMPERATURE EXPOSURE TO VAPORS ARE MINIMAL DUE TO
PHYSICAL PROPERTIES OF ETHYLENE GYLCOL. HIGHER TEMPERATURES
MAYRESULT IN DIZZINESS, NAUSEA AND OTHER ADVERSE EFFECTS.
INGESTION: SMALL AMOUNTS MAY BE DRAWN INTO THE LUNGS BY EITHER
SWALLOWING OR VOMITING. THIS MAY CAUSE BUR NS AND INFLAMMATION AND
INFECTION TO THE BRONCHI. INGESTION MAY CAUSE BURNS TO THE
DIGES

TIVE TRACT. THE LETHAL DOSE IS ESTIMATED TO BE 3 OZ OF 100% ETHYLENE GLYCOL OR 100 ML.

Medical Cond Aggravated by Exposure:MAY AGGRAVATE EXISTING SKIN CONDITIONS.

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

First Aid:INHALATION-REMOVE TO FRESH AIR. ADMINISTER OXYGEN AS NEEDED. CALL A PHYSICIAN. EYE-FLUSH WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION. SKIN-WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. IF IRRITATION DEVELOPS SEEK MEDICAL ATTENTION.

INGESTION-GIVE SEVERAL GLASSES OF WATER. DO NOT INDUCE VOMITING. SEEK MEDICAL HELP. EXCESSIVE EXPOSURE MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS (METABOLIC ACIDOSIS) AND KIDNEY FAILURE. NOTE TO PHYSICIAN: EXCESSIVE EXPOSURE MAY CAUSE IRRITATION TO THE UPPER RESPIRATORY TRACT.

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

Flash Point Method:TCC

Flash Point:NONE TO BOILING

Lower Limits:3.2

Upper Limits:NOT DETERM.

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICALS, BC/ABC EXTINGUISHERS

Fire Fighting Procedures:KEEP PEOPLE AWAY. ISOLATE FIRE AREA & DENY UNNECESSARY ENTRY. USE CARBON DIOXIDE OR DRY CHEMICAL MEDIA FOR SMALL FIRES. WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE FIRE FIGHTING CLOTHING.

Unusual Fire/Explosion Hazard:KEEP DURMS COOL WHEN FIGHTING FIRE. WHEN AVAILABLE OXYGEN IS LIMITED OR AT VERY HIGH TEMPERATURES, CARBON MONOXIDE & OTHER HAZARDOUS COMPOUNDS SUCH AS ALDEHYDE MAY BE

GENERATED.

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

Spill Release Procedures:DIKE AREA. PICK UP SPILL WITH INERT NONFLAMMABLE ABSORBENT MATERIAL. DISPOSE OF IN PROPER WASTE DISPOSAL CONTAINER W/LID TIGHTLY COVERED. USE ABSORBENT MATERIAL TO DRY AREA.

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT STORE NEAR FOOD, FOODSTUFF, DRUGS OR POTABLE WATER.

Other Precautions:NOTE TO PHYSICIAN: OBSERVATION IN ANIMALS INCLUDE KIDNEY AND LIVER EFFECTS AND DEPOSITION OF CALCIUM SALTS IN VARIOUS TISSUES AFTER LONG TERM DIETARY INTAKE. EARLY ADMINISTRATION OF ETHANOL MAY COUNT ER THE TOXIC EFFECTS OF ETHYLENE GLYCOL--METABOLIC ACIDOSIS AND RENAL DAMAGE.

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

Respiratory Protection:ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW EXPOSURE LEVELS. FOR MOST CONDITIONS NO PROTECTION IS NEEDED. IF

MATERIAL IS HEATED USE AN APPROVED AIR-PURIFYING RESPIRATOR.

Ventilation:USE MECHANICAL (GENERAL)/LOCAL EXHAUST TO KEEP EXPOSURE BELOW GUIDELINES. KEEP AWAY FROM OPEN FLAME OR HEAT.

Protective Gloves:RUBBER GLOVES

Eye Protection:FACE SHIELD OR SAFETY GLASSES

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER

BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

STORE IN A COOL DRY PLACE. KEEP AWAY FROM OPEN FLAME OR HEAT. LOCAL EXHAUST VENTILATION MAY BE REQUIRED FOR SOME OPERATIONS.

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

HCC:N1

NRC/State Lic Num:NONE

Boiling Pt: