

DOW CHEMICAL U S A -- ETHYLENE GLYCOL (REGULAR) - ETHYLENE GLYCOL-WATER,
COOLANT

MATERIAL SAFETY DATA SHEET

DOW CHEMICAL U S ANSN: 6850010361123

Manufacturer's CAGE: 71983

Part No. Indicator: A

Part Number/Trade Name: ETHYLENE GLYCOL (REGULAR)

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General Information
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Item Name: ETHYLENE GLYCOL-WATER, COOLANT
Company's Name: DOW CHEMICAL U S A
Company's Street: 2030 DOW CENTER BARSTOW BLDG
Company's City: MIDLAND
Company's State: MI
Company's Country: US
Company's Zip Code: 48674
Company's Emerg Ph #: 517-636-4400
Company's Info Ph #: 517-636-4410
Distributor/Vendor # 1: CSD INC. (409-756-1065)
Distributor/Vendor # 1 Cage: 4N760
Record No. For Safety Entry: 008
Tot Safety Entries This Stk#: 009
Status: SE
Date MSDS Prepared: 13FEB89
Safety Data Review Date: 13OCT93
Supply Item Manager: CX
MSDS Serial Number: BRRKR
Hazard Characteristic Code: N1
Unit Of Issue: GL
Unit Of Issue Container Qty: 1 GL BOTTLE
Type Of Container: BOTTLE
Net Unit Weight: 9.3 LBS

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: ETHYLENE GLYCOL (SARA III)
Ingredient Sequence Number: 01
Percent: >99
NIOSH (RTECS) Number: KW2975000
CAS Number: 107-21-1
OSHA PEL: C 50 PPM
ACGIH TLV: C 50 PPM,VAPOR; 9293
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics
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Appearance And Odor: COLORLESS LIQUID. PRACTICALLY ODORLESS.
Boiling Point: 387F,197C
Melting Point: UNKNOWN
Vapor Pressure (MM Hg/70 F): 0.12
Vapor Density (Air=1): 2.14
Specific Gravity: 1.1155
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: UNKNOWN
Solubility In Water: COMPLETELY MISCIBLE

Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data
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Flash Point: 247F,119C
Flash Point Method: SCC
Lower Explosive Limit: 3.2
Upper Explosive Limit: UNKNOWN
Extinguishing Media: WATER FOG, ALCOHOL FOAM, CARBON DIOXIDE, DRY
CHEMICAL.
Special Fire Fighting Proc: WEAR POSITIVE PRESSURE, SELF-CONTAINED
BREATHING APPARATUS.
Unusual Fire And Expl Hazrds: NONE EXPECTED UNDER NORMAL STORAGE AND
HANDLING CONDITIONS. ETHYLENE GLYCOL OR SOLUTIONS WITH WATER CAN FORM
FLAMMABLE VAPORS WITH AIR IF HEATED SUFFICIENTLY.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): WILL IGNITE IN AIR AT 775F (413C).
Materials To Avoid: OXIDIZING MATERIAL.
Hazardous Decomp Products: BURNING PRODUCES NORMAL PRODUCTS OF COMBUSTION,
SUCH AS CARBON MONOXIDE, CARBON DIOXIDE, AND WATER.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): WILL NOT OCCUR.

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Health Hazard Data
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LD50-LC50 Mixture: ORAL LD50 (RAT) IS 6-13 G/KG.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: YES
NONIRRITATING. REPEATED EXPOSURE MAY RESULT IN ABSORPTION OF HARMFUL
AMOUNTS. INHALATION: EXCESSIVE EXPOSURE MAY CAUSE IRRITATION OF UPPER
RESPIRATORY TRACT. INGESTION: LARGE AMOUNTS MAY CAUSE CNS EFFECTS,
CARDIOPULMONARY EFFECTS, KIDNEY FAILURE, SERIOUS INJURY, DEATH.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Signs/Symptoms Of Overexp: EYES: IRRITATION. SKIN: NONIRRITATING.
INHALATION: IRRITATION OF UPPER RESPIRATORY TRACT. INGESTION: MAY CAUSE
CENTRAL NERVOUS SYSTEM EFFECTS, CARDIOPULMONARY EFFECTS, KIDNEY FAILURE,
SERIOUS INJURY, DEATH.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: EYES: FLUSH WITH LARGE AMOUNTS OF WATER. IF
IRRITATION PERSISTS. GET MEDICAL ATTENTION. SKIN: FLUSH AREA WITH WATER OR
SHOWER. INHALATION: MOVE TO FRESH AIR. IF ADVERSE SYMPTOMS DEVELOP, GET
MEDICAL ATTENTION. INGESTION: INDUCE VOMITING AS DIRECTED BY MEDICAL
PERSONNEL. GET MEDICAL ATTENTION.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: AVOID DISCHARGE INTO SEWERS OR NATURAL
WATERS. SOAK UP SMALL SPILLS WITH ABSORBENT MATERIAL. DIKE LARGE SPILLS AND
PUMP INTO SUITABLE CONTAINERS FOR DISPOSAL.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: EITHER SALVAGE OR BURN IN AN APPROVED INCINERATOR

IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
Precautions-Handling/Storing: AVOID INGESTION. PRACTICE REASONABLE CAUTION
AND PERSONAL CLEANLINESS. AVOID SKIN AND EYE CONTACT.
Other Precautions: PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

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Control Measures
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Respiratory Protection: ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE
EXPOSURE GUIDELINE. WHEN RESPIRATORY PROTECTION IS REQUIRED FOR CERTAIN
OPERATIONS, USE AN APPROVED AIR-PURIFYING RESPIRATOR.
Ventilation: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST
CONDITIONS. LOCAL EXHAUST MAY BE NEEDED FOR SOME OPERATIONS.
Protective Gloves: IMPERVIOUS GLOVES TO AVOID SKIN CONTACT.
Eye Protection: USE SAFETY GLASSES.
Other Protective Equipment: IF VAPOR EXPOSURE CAUSES EYE DISCOMFORT, USE A
FULL-FACE RESPIRATOR.
Work Hygienic Practices: WASH AFTER HANDLING AND BEFORE EATING, DRINKING,
OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

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Transportation Data
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Trans Data Review Date: 93286
DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
AFI PSN Code: ZZZ
AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 13OCT93
Label Status: F
Common Name: ETHYLENE GLYCOL (REGULAR)
Chronic Hazard: YES
Signal Word: DANGER!
Acute Health Hazard-Severe: X
Contact Hazard-Moderate: X
Fire Hazard-Slight: X
Reactivity Hazard-None: X
NONIRRITATING. REPEATED EXPOSURE MAY RESULT IN ABSORPTION OF HARMFUL
AMOUNTS. INHALATION: EXCESSIVE EXPOSURE MAY CAUSE IRRITATION OF UPPER
RESPIRATORY TRACT. INGESTION: LARGE AMOUNTS MAY CAUSE CNS EFFECTS,
EYES: FLUSH WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS. GET
MEDICAL ATTENTION. SKIN: FLUSH AREA WITH WATER OR SHOWER. INHALATION: MOVE
TO FRESH AIR. IF ADVERSE SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.
INGESTION: INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. GET MEDICAL
ATTENTION.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y

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Label City: MIDLAND
Label State: MI
Label Zip Code: 48674
Label Country: US
Label Emergency Number: 517-636-4400