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ARCO CHEMICAL COMPANY, DIV OF ATLANTIC RICHFIELD -- PROPYLENE GLYCOL INDUSTRIAL --
6810-00-394-3555

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

Product ID:PROPYLENE GLYCOL INDUSTRIAL

MSDS Date:11/03/1993

FSC:6810

NIIN:00-394-3555

MSDS Number: BDXLT

=== Responsible Party ===

Company Name:ARCO CHEMICAL COMPANY, DIV OF ATLANTIC RICHFIELD

Address:1500 MARKET STREET

Box:7258

City:PHILADELPHIA

State:PA

ZIP:19101

Country:US

Info Phone Num:800-321-7000

Emergency Phone Num:610-353-8300(CHEMTREC 800-424-9300)

CAGE:3D253

=== Contractor Identification ===

Company Name:ARCO CHEMICAL COMPANY, DIV OF ATLANTIC RICHFIELD

Address:1500 MARKET STREET

Box:7258

City:PHILADELPHIA

State:PA

ZIP:19101

Country:US

Phone:215-353-8300,CHEMTREC 800-424-9300

CAGE:3D253

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:4N760

Company Name:WATER CHEMISTRY, INC
Address:3404 AERIAL WAY DR SW
Box:4273
City:ROANOKE
State:VA
ZIP:24018-1504
Country:US
Phone:540-989-0400/343-3618
CAGE:66378

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

Ingred Name:PROPYLENE GLYCOL
CAS:57-55-6
RTECS #:TY2000000
Fraction by Wt: 99%
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO
IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: EXPOSURE MAY CAUSE EYE
IRRITATION. NO SIGNIFIGANT EFFECTS OR SYMPTOMS EXPECTED IF VAPOR
INHALED OR LIQUID INGESTED OR ON SKIN CONTACT. CHRONIC: NONE
SPECIFIED BY MANUFACTURER.
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure:EYE-IRRITATION.
Medical Cond Aggravated by Exposure:MAY AGGRAVATE PRE-EXISTING EYE
DIS
EASE.

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

First Aid:EYES-IMMEDIATELY FLUSH WITH LOTS OF WATER FOR 15 MINUTES,
LIFT LIDS. IF PAIN OCCURS OR IRRITATION PERSISTS, SEE PHYSICIAN.

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

Flash Point Method:TCC
Flash Point:211F,99C
Autoignition Temp:Autoignition Temp Text:700F
Lower Limits:2.4
Upper Limits:17.4
Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL TYPE FOAM.
Fire Fighting Procedu

res:WEAR SCBA AND PROTECTIVE EQUIPMENT. FIGHT FIRE FROM SAFE DISTANCE. USE WATER SPRAY/FOG FOR COOLING. AVOID FROTHING/ STEAM EXPLOSION.
Unusual Fire/Explosion Hazard:HEAT FROM FIRE CAN GENERATE FLAMMABLE VAPORS. VAPORS CAN EXPLODE WHEN CONFINED. VAPORS HEAVIER THAN AIR, CAN TRAVEL A LONG DISTANCE AND FLASHBACK.

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

Spill Release Procedures:LIMIT ACCESS OR EVACUATE. WEAR PROPER PERSONAL PROTECTIVE GEAR. STOP LEAK. ABSORB WITH INERT MATERIAL AND PLACE IN A CONTAINER FOR LATER DISPOSAL. MAY CONTAMINATE WATER SUPPLIES/PUBLIC WATERS. NOTIFY AUTHORITIES PER REGULATORY REQUIREMENTS.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINERS, AWAY FROM HEAT, MOISTURE, STRONG OXIDIZERS. STORE AT 65-90F. USE DRY NITROGEN OR LOW DEW POINT AIR FOR TANK PAD.
Other Precautions:CLEAN EQUIPMENT WITH WATER.

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

Respiratory Protection:NONE NORMALLY REQUIRED.
Ventilation:NO SPECIAL VENTILATION.
Protective Gloves:NOT NORMALLY REQUIRED.
Eye Protection:CHEMICAL SPLASH GOGGLES. FACE SHIELD.
Other Protective Equipment:NONE.
Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING, SMOKING, USE TOILET FACILITIES.
Supplemental Safety and Health
PROMPTLY REMOVE SOILED CLOTHING/WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY SOAP & WATER.

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

HCC:N1
Boiling Pt:B.P. Text:365F,185C
Melt/Freeze Pt:M.P/F.P Text:76.0F,24.4C
Vapor Pres:0.08
Vapor Density:2.6
Spec Gravity:1.04
Viscosity:46 CPS @ 77F
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS, ALMOST ODORLESS, SLIGHTLY VISCOUS LIQUID.

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

Stability Indicator/Materials to Avoid:YE

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STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:HIGH TEMPERATURES, MOISTURE. PRODUCT IS
HYGROSCOPIC. STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products:CARBON MONOXIDE & OTHER HARMFUL
GASES/VAPORS.

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

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER.
LANDFILL SOLIDS. BURN CONCENTRATED LIQUIDS. COMPLY WITH ALL
APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.
CONTAMINATED PRODUCT, SOIL, WATER SHOULD NOT BE DESIGNATED RCRA
HAZARDOUS WASTE.

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