

HUNTSMAN SPECIALTY CHEMICALS CORPORATION -- PGWD PROPYLENE GLYCOL-WD --
6810-00-394-3555

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

Product ID:PGWD PROPYLENE GLYCOL-WD

MSDS Date:06/02/1998

FSC:6810

NIIN:00-394-3555

MSDS Number: CJGGS

=== Responsible Party ===

Company Name:HUNTSMAN SPECIALTY CHEMICALS CORPORATION

Address:500 HUNTSMAN WAY

City:SALT LAKE CITY

State:UT

ZIP:84108

Country:US

Info Phone Num:713-

235-6432

Emergency Phone Num:409-727-0831/722-9673 MED

Chemtrec Ind/Phone:(800)424-9300

CAGE:LO308

=== Contractor Identification ===

Company Name:HOC INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609

City:WICHITA

State:KS

ZIP:67219

Country:US

Phone:316-838-4663

Contract Num:SP0450-99-M-C579

CAGE:0A9L8

Company Name:HUNTSMAN SPECIALTY CHEMICALS CORPORATION

Address:500 HUNTSMAN WAY

Box:City:SALT LAKE CITY

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ZIP:84108

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Phone:713-235-6432

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===== Composition/Informatio

n on Ingredients =====

Ingred Name:1,2-PROPANEDIOL/PROPYLENE GLYCOL

CAS:57-55-6

RTECS #:TY2000000

= Wt:100.

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS >5,000 MG/KG.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:TARGET ORGANS: EYE, SKIN, CENTRAL

NERVOUS SYSTEM (HMIS). ACUTE - INHALATION: VAP

ORS OR MIST, IN

EXCESS OF PERMISSIBLE LIMITS, OR IN UNUSUALLY HIGH CONCENTRATIONS
GENERATED FROM SPRAYING OR HEATING MAY CAUSE IRRITATION OF NOSE
AND THROAT, DIZZINESS, HEADACHE, NAUSEA, AND DROWSINESS. EYES: MAY
CAUSE MINIMAL IRRITATION, EXPERIENCED AS TEMPRARY DISCOMFORT.
SKIN: BRIEF CONTACT IS NOT IRRITATING. PROLO NGED CONTACT WITH
CLOTHING WETTED WITH MATERIAL MAY CAUSE DEFATTING AND IRRITATION.
INGESTION: IF MORE THAN SEVERAL MOUTHFULS ARE SWALLOWED, MAY CAUS

E

ABDOMINAL DISCOMFORT. ASPIRATION MAY CAUSE LUNG DAMAGE. CHRONIC -
NO ADVERSE EFFECTS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, SKIN DEFATTING, HEADACHE,

DIZZINESS, UNCONSCIOUSNESS, DISCOMFORT, DROWSINESS

Medical Cond Aggravated by Exposure:THERE IS NO EVIDENCE THAT THIS

PRODUCT AGGRAVATES AN EXISTING CONDITION.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS DEVELOP OR PERSIST. INHALED

:

REMOVE TO FRESH AIR. EYES: FLUSH WITH WATER FOR SEVERAL MINUTES.
HOLD EYELIDS OPEN. SKIN: WASH WITH PLENTY OF SOAP AND WATER FOR
SEVERAL MINUT ES. INGESTION: IF PERSON IS CONSCIOUS AND CAN
SWALLOW, GIVE TWO GLASSES OF WATER (16 OZ) BUT DO NOT INDUCE
VOMITING. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT
ASPIRATION AND GIVE FLUID AGAIN . HAVE MEDICAL PERSONNEL DETERMINE
IF EVACUATION OF STOMACH OR INDUCTION OF VOMITING IS NECESSARY. DO
NOT GIVE ANYTHING BY

MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

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

Flash Point Method:CC
Flash Point:=100.C, 212.F
Autoignition Temp:=371.1C, 700.F
Lower Limits:2.6
Upper Limits:12.5
Extinguishing Media:USE WATER SPRAY, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE TO EXTINGUISH FLAMES. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. WATER OR FOAM MAY CAUSE FROTHING.
Fire Fighting Procedures:NO SPECIAL PROTECTIVE EQUIPMENT OR PROCEDURES REQUIRED.
Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:CONTAIN SPILL IF POSSIBLE, CONTAIN WITH ABSORBENT MATERIALS SUCH AS CLAY OR SOIL, AND SHOVEL UP. AVOID SKIN AND EYE CONTACT. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN CLOSED CONTAINER. PERIODS OF EXPOSURE TO HIGH TEMPERATURES SHOULD BE MINIMIZED.
Other Precautions:KEEP OUT OF REACH OF CHILDREN. AVOID EYE CONTACT. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. MINIMUM FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED.

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

Respiratory Protection:IF VAPOR, MIST OR DUST IS GENERATED AND THE OCCUPATIONAL EXPOSURE LIMIT OF THE PRODUCT, OR ANY COMPONENT OF THE PRODUCT IS EXCEEDED, USE APPROPRIATE NIOSH OR MSHA APPROVED AIR PURIFYING OR AIR SUPPLIED RESPIRATOR AFTER DETERMINING THE AIRBORNE CONCENTRATION OF THE CONTAMINANT. AIR SUPPLIED RESPIRATORS SHOULD BE WORN IF PEL OR OXYGEN CONTENT IS UNKNOWN.
Ventilation:LOCAL EXHAUST VENTILATION RECOMMENDED IF GENERATING VAPOR, DUST, OR MIST.
Protective Gloves:WORKERS SHOULD WASH EXPOSED SKIN SEVERAL TIMES DAILY WITH SOAP AND WATER.
Eye Protection:SAFETY GLASSES, CHEMICAL TYPE GOGGLES, OR FACE SHIELD RECOMMENDED

DED
Other Protective Equipment:EYE BATH, WASHING FACILITY, LAB COAT OR
UNIFORM.

Work Hygienic Practices:SOILED WORK CLOTHING SHOULD BE LAUNDERED OR
DRY-CLEANED.

Supplemental Safety and Health

AIRBORNE CONCENTRATIONS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. IF
EXHAUST VENTILATION IS NOT AVAILABLE OR INADEQUATE, USE MSHA OR
NIOSH APPROVED RESPIRATOR.

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

HCC:V5

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=187.2C, 369

.F

Melt/Freeze Pt: 100 MG/LITER, PRACTICALLY NONTOXIC. THIS PRODUCT
HAS A MODERATE ($\geq 30\%$) RATE OF BIODEGRADATION AND A LOW POTENTIAL
OF BIOCONCENTRATION.

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

Waste Disposal Methods:THIS PRODUCT, AS PURCHASED, DOES NOT MEET THE
RCRA CRITERIA OF A HAZARDOUS WASTE. UNDER RCRA, IT IS THE
RESPONSIBILITY OF THE USER TO DETERMINE WHETHER PRODUCT MEETS RCRA
CRITERIA FOR HAZARDOUS WASTE. CONSULT LOCAL, STATE OR FEDERAL

AUTHORITIES.

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

SARA Title III Information:NONE

Federal Regulatory Information:ALL COMPONENTS OF THIS PRODUCT ARE
INCLUDED ON OR EXEMPTED FROM LISTING ON THE TOXIC SUBSTANCE CONTROL
ACT (TSCA) INVENTORY OF CHEMICAL SUBSTANCES.

State Regulatory Information:CALIFORNIA PROP 65: THE FOLLOWING
DETECTABLE COMPONENTS OF THIS PRODUCT ARE SUBSTANCES OR BELONG TO
CLASSES OF SUBSTANCES, KNOWN TO THE STATE OF CALIFORNIA
TO CAUSE
CANCER AND/OR REPRODUCTIVE TOXICITY : NONE.

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