

OLD WORLD INDUSTRIES INC -- FULLFORCE ANTIFREEZE &COOLANT -- 6850-00-664-1409

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

Product ID:FULLFORCE ANTIFREEZE &COOLANT

MSDS Date:09/01/1998

FSC:6850

NIIN:00-664-1409

Status Code:A

MSDS Number: CLQCC

=== Responsible Party ===

Company Name:OLD WORLD INDUSTRIES INC

Address:4065 COMMERCIAL AVE

City:NORTHBROOK

State:IL

ZIP:60062-1851

Country:US

Info Phone Num:847-559

-2000/2116/FAX: 847-559-2173

Emergency Phone Num:1-800-424-9300

Preparer's Name:ERNEST CARTER

Chemtec Ind/Phone:(800)424-9300

CAGE:0U3B1

=== Contractor Identification ===

Company Name:OLD WORLD INDUSTRIES INC

Address:4065 COMMERCIAL AVE

Box:City:NORTHBROOK

State:IL

ZIP:60062-1851

Country:US

Phone:847-559-2000/2116/FAX: 847-559-2173

CAGE:0U3B1

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

Ingred Name:ETHYLENE GLYCOL

CAS:107-21-1

RTECS #:KW2975000

Minumum % Wt:90.

Maxumum

% Wt:95.  
ACGIH STEL:C127 MG/M3;C50 PPM  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:DIETHYLENE GLYCOL  
CAS:111-46-6  
RTECS #:ID5950000  
Minumum % Wt:0.  
Maxumum % Wt:5.

Ingred Name:DIPOTASSIUM PHOSPHATE  
CAS:7758-11-4  
Minumum % Wt:1.  
Maxumum % Wt:2.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:EYE: MAY CAUSE SLIGHT TRANSIENT  
(TEMPORARY) EYE IRRITATION.CORNEAL INJURY IS LIKELY. S  
KIN:

PROLONGED OR REPEATED EXPOSURE NOT LIKELY TO CAUSE SIGNIFICANT SKIN  
IRRITATION.A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN  
THE MATERIAL BEING ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS.  
INGESTION: SINGLE DOSE ORAL TOXICITY IS CONSIDERED TO BE  
MODERATE.EXCESSIVE EXPOSURE MAY CAUSE CENTRAL NERVOUS SY STEM  
EFFECTS. INHALATION: AT ROOM TEMPERATURE, EXPOSURES TO VAPORS ARE  
MINIMAL DUE TO PHYSICAL PROPERTIES. HIGHER TEMPERATURES MAY  
GENERATE VAPORS LEV

ELS SUFFICIENT TO CAUSE ADVERSE EFFECTS.

Effects of Overexposure:SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: REPEATED  
EXCESSIVE EXPOSURES MAY CAUSE SEVERE KIDNEY AND ALSO LIVER AND  
GASTROINTESTINAL EFFECTS. SIGNS AND SYMPTOMS OF EXCESSIVE EXPOSURE  
MAY BE CENTRAL NERVOUS SYSTEM EFFECTS. SIGNS AND SYMPTOMS OF  
EXCESSIVE EXPOSURE MAY BE NAUSEA AND/OR VOMITING. SIGNS AND  
SYMPTOMS OF EXCESSIVE EXPOSURE MAY BE ANESTHETIC OR NARCOTIC  
EFFECTS. OBSERVATIONS IN ANIMALS INCLUDE FORMATIO

N OF BLADDER

STONES AFTER REPEATED ORAL DOSES OF ETHYLENE GLYCOL. REPORTS OF  
LIDNEY FAILURE AND DEATH IN BURN PATIENTS SUGGEST THE ETHYLENE  
GLYCOL MAY HAVE BEEN A FACTOR, THE USE OF TOPICAL A PPLICATION  
CONTAINING THIS MATERIAL MAY

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

First Aid:EYES: FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES,  
LIFTING LOWER AND UPPER LIDS. GET MEDICAL ATTENTION AS SOON AS  
POSSIBLE. SKIN: FLUSH AREA OF SKIN CONT

ACT IMMEDIATELY WITH LARGE

AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING  
CONTAMINATED CLOTHING. IF IRRITATION PERSISTS AFTER FLUSHING, GET  
MEDICAL ATTENTION PROMPTLY. WASH CLOTHING BEFORE RE-USE. INHALATION:  
IMMEDIATELY REMOVE TO FRESH AIR AND CALL EMERGENCY MEDICAL  
CARE. INGESTION: IF SWALLOWED GIVE TWO GLASSES OF WATER AND  
IMMEDIATELY CALL PHYSICIAN, INDUCE VOMITING OF CONTENTS. IF  
SWALLOWED GIVE TWO GLASSES OF WATER AND IMMEDIATELY CALL

PHYSICIAN.

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

Flash Point Method: SCC

Flash Point: =119.4C, 247.F

Autoignition Temp: =397.8C, 748.F

Lower Limits: 3.2%

Upper Limits: 22%

Extinguishing Media: WATER FOG OR FINE SPRAY. ALCOHOL RESISTANT FOAMS  
(ATC TYPE) ARE PREFERRED IF AVAILABLE. CARBON DIOXIDE, DRY  
CHEMICAL. DO NOT USE DIRECT WATER STREAM - MAY SPREAD FIRE.

Fire Fighting Procedures: NO FIRE AND EXPLOSION HAZARDS EXPECTED UNDER  
NORMAL STORAGE AND HANDLING CONDITIONS.

ETHYLENE GLYCOL OR

SOLUTIONS OF ETHYLENE GLYCOL AND WATER CAN FORM FLAMMABLE VAPORS  
WITH AIR IF HEATED SUFFICIENTLY. KEEP PEOPLE AWAY.

Unusual Fire/Explosion Hazard: WEAR POSITIVE PRESSURE, SELF-CONTAINED  
BREATHING APPARATUS (SCBA) AND PROTECTIVE FIRE FIGHTING CLOTHING.  
(INCLUDES HELMET, COAT, PANTS, BOOTS, GLOVES.)

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

Spill Release Procedures: PROTECT PEOPLE: TAKE ADEQUATE PRECAUTIONS TO  
KEEP PEOPLE

AWAY, ESPECIALLY CHILDREN AWAY FROM SPILL SITE. PVC-COATED

RUBBER GLOVES AND MONOGOGGLES OR FACESHIELD CAN BE USED DURING  
CLEANUP OF SPILL SITE. DO NOT DUMP USED PRODUCT OR DILUTED  
MATERIAL INTO SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

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

Handling and Storage Precautions: KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection: IF AIRBORNE CONCENTRATIONS ARE

CONCENTRATION EXCEEDS TLV, ANY SCBA

WITH FULL FACEPIECE OR ANY SUPPLIED AIR RESPIRATOR WITH A FULL FACEPIECE AND OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPENED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves:POLYETHYLENE, NEOPRENE, NITRILE, POLYVINYL ALCOHOL, NATURAL RUBBER, BUTYL RUBBER

E

Eye Protection:SAFETY GOGGLES AND FACE SHIELD.

Other Protective Equipment:EMERGENCY EYEWASH SHOULD BE AVAILABLE.

CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS CHEMICAL.

Supplemental Safety and Health

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

Boiling Pt:=-175.6C, 348.F

Melt/Freeze Pt:=-22.2C, -8.F

Vapor Pres: