

THIRD COAST PACKAGING INC -- 3C UNIVERSAL PROPYLENE GLYCOL ANTIFREEZE --
6850-01-383-4068

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

Product ID:3C UNIVERSAL PROPYLENE GLYCOL ANTIFREEZE

MSDS Date:11/19/1996

FSC:6850

NIIN:01-383-4068

Status Code:A

MSDS Number: CLHLW

=== Responsible Party ===

Company Name:THIRD COAST PACKAGING INC

Address:18410 W CLOVER LN

Box:367

City:FRIENDSWOOD

State:TX

ZIP:77549

Country

:US

Info Phone Num:281-482-9212;914-838-7204

Emergency Phone Num:1-281-482-9212

Chemtrec Ind/Phone:(800)424-9300

CAGE:0P418

=== Contractor Identification ===

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

Contract Num:SP0450-01-M-ZF10

CAGE:4N760

Company Name:THIRD COAST PACKAGING INC

Address:18410 W CLOVER LN

Box:367

City:FRIENDSWOOD

State:TX

ZIP:77549

Country:US

Phone:281-482-9212;914-838-7204

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Composition/Information on Ingredients
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Ingred Name:POTASSIUM HYDROXIDE
CAS:1310-58-3
RTECS #:TT2100000
ACGIH STEL:C2 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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Hazards Identification
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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE & SKIN CONTACT: PRIMARY
IRRITATION TO EYES, REDNESS, TEARING, BLURRED VISION. LIQUID CAN
CAUSE EYE IRRITATION. WASH THOROUGHLY AFTER HANDLING. NOT
NORMALLY CONSIDERED A SKIN HAZARD. USE NORMAL GOOD HYGIENE
PRACTICES WHEN HANDLING. INHALATION: NO SPECIAL RESPIRATORY
PROTECTION EQUIPMENT IS RECOMMENDED FOR NORMAL USE. USE WITH
ADEQUATE VENTILATION. SWALLOWING: NO SIGNIFICANT SIGNS OR SYMPTOMS
INDICATIVE OF ANY ADVERSE HEALTH HAZARD ARE EXPECTED TO OCCUR AS A
RESULT OF SWALLOWING.
Explanation of Carcinogenicity:THIS PRODUCT HAS NO CARCINOGENS LISTED
BY IARC, NTP, NIOSH, OSHA O ACGI
H.
Medical Cond Aggravated by Exposure:THIS MATERIAL OR ITS EMISSION MAY
AGGRAVATE EXISTING EYE DISEASE.

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First Aid Measures
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First Aid:EYE CONTACT: FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT
LEAST 15 MINUTES, LIFTING EYELIDS TO INSURE COMPLETE FLUSHING OF
SURFACE. IF IRRITATION PERSISTS GET MEDICAL ATTENTION. SKIN
CONTACT: WASH SKIN WITH SOAP AND WATER. REMOVE CONTAMINATED
CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. INHALATION:
NO SIGNIFICANT SIGNS OR SYMPTOMS INDICATIVE OF ANY ADVERSE HEALTH
HAZARD ARE EXPECTED TO OCCUR AS A RESULT OF INHALATION EXPOSURE.
SWALLOWING: NO SIGNIFICANT SIGNS OR SYMPTOMS INDICATIVE OF ANY
ADVERSE HEALTH HAZARD ARE EXPECTED TO OCCUR AS A RESULT OF
INHALATION EXPOSURE.

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Fire Fighting Measures
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Flash Point Method:TCC
Flash Point:107.2C, 225.F
Autoignition Temp:343.C, 649.4F
Lower Limits:2.6
Extingu

ishing Media:USE NFPA CLASS B EXTINGUISHERS (CARBON DIOXIDE OR FOAM) FOR CLASS IIIB LIQUID FIRES. WATER SPRAY MAY BE INEFFECTIVE ON FIRE BUT CAN PROTECT FIRE-FIGHTERS AND COOL CLOSED CONTAINERS.

Fire Fighting Procedures:USE FOG NOZZLES IF WATER IS USED. DO NOT ENTER CONFINED FIRE-SPACE WITHOUT FULL BUNKER GEAR. HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES, AND RUBBER BOOTS. USE NIOSH APPROVED POSITIVE PRESSURE SELF CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Haza

rd:SLIGHTLY COMBUSTIBLE! KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FORM OXIDIZERS, HEAT, AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE IF EXPOSED TO EXTREME HEAT.

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

Spill Release Procedures:STOP SPILL AT SOURCE. DIKE AREA AND CONTAIN. CLEAN UP REMAINDER WITH ABSORBENT MATERIALS. MOP UP AND DISPOSE OF PROPERLY.

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

Handling and Storage Precaution

s:HANDLING-ISOLATE FROM OXIDIZERS, HEAT, & OPEN FLAME. USE ONLY WITH ADEQUATE VENTILATION. AVOID REPEATED BREATHING OF VAPOR OR SPRAY MIST. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. AVOID FREE FALL OF LIQUID. GROUND CONTAINERS WHEN TRANSFERRING. DO NOT BRAZE, CUT, OR WELD AROUND CONTAINERS.

Other Precautions:STORAGE- STORE IN A COOL VENTILATED AREA. KEEP CONTAINER CLOSED.

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

Respiratory Protection:VENTIL

ATE TO KEEP VAPORS OF THIS MATERIAL BELOW

500 PPM. IF OVER TLV, IN ACCORDANCE WITH 29 CFR 1910.134, USE NIOSH APPROVED POSITIVE PRESSURE SELF CONTAINED BREATHING APPARATUS. CONSULT SAFETY EQUIPMENT SUPPLIER.

Ventilation:LOCAL EXHAUST: NECESSARY. MECHANICAL: ACCEPTABLE. SPECIAL: NONE.

Protective Gloves:YES

Eye Protection:WEAR OSHA STANDARD GOGGLES OR FACE SHIELD. CONSULT SAFETY EQUIPMENT SUPPLIER.

Other Protective Equipment:WEAR GLOVES, APRON AND FOOTWEAR IMPERVIOUS

T

O THIS MATERIAL.

Work Hygienic Practices:WASH CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

PRODUCT IDENTITY: 3C UNIVERSAL PROPYLENE GLYCOL ANTIFREEZE. ANTIFREEZE
PG (ASTM-D-5216-94).

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

HCC:V5

Boiling Pt:=187.C, 368.6F

Vapor Pres:1.0

Vapor Density:2.5

Spec Gravity:1.062

pH:10.5

Solubility in Water:COMPLETE

Appearance and Odor:VIOLET LIQUID. NO ODOR.

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

Stability Indicator/Materials to Avoid:YES

ISOLATE FROM STRONG OXIDIZERS SUCH AS PERMANGANATE, CHROMATE, AND
PEROXIDES.

Stability Condition to Avoid:ISOLATE FROM OXIDIZERS, HEAT, AND OPEN
FLAMES.

Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON MONOXIDE
FROM BURNING.

===== Toxicological Information =====

Toxicological Information:POTASSIUM HYDROXIDE: LOWEST KNOWN LD50 (ORAL)
360.0 MG/KG (RATS). THRESHOLD LIMIT VALUE: 1000 P

PM (FRESHLY
PREPARED).

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

Waste Disposal Methods:RECYCLE OR DISPOSE OF ACCORDING TO LOCAL, STATE
AND FEDERAL HEALTH, SAFETY, AND POLLUTION REGULATIONS.

===== MSDS Transport Information =====

Transport Information:DOT SHIPPING NAME: NOT REGULATED. DRUM: NONE.

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

SARA Title III Information:POTASSIUM HYDROXIDE (REG SECTION 311

, 312).

RQ(LBS)=1000. SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION. THIS PRODUCT DOES NOT CONTAIN ANY TOXIC CHEMICAL SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOWN ACT OF 1986 & 40 CFR 372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED & DISTRIBUTED FOR THIS MATERIAL.

Federal Regulatory Information:NO COMPONENTS OF THIS PRODUCT ARE EPA HAZARDOUS AIR POLLUTANTS (HAP). ALL COMPONENTS OF THIS PRODUCT ARE

ON THE TSCA LIST. THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMI LAR REGULATIONS.

State Regulatory Information:THIS PRODUCT DOES NOT CONTAIN ANY KNOWN CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE DAMAGE.

===== Other Information =====

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