

GRAIN PROCESSING CORP -- 190 PROOF OR ANHYDROUS SPECIALTY DENATURED ETHYL
ALCOHOL 3A, -- 6810-00-201-0906

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

Product ID:190 PROOF OR ANHYDROUS SPECIALTY DENATURED ETHYL ALCOHOL 3A,
MSDS Date:02/25/1994

FSC:6810

NIIN:00-201-0906

MSDS Number: CJKCB

==== Responsible Party ===

Company Name:GRAIN PROCESSING CORP

Address:1600 OREGON STREET

Box:349

City:MUSCATINE

State:IA

Z

IP:52761

Country:US

Info Phone Num:319-264-4304

Emergency Phone Num:319-264-4304

Preparer's Name:NOT PROVIDED

Chemtrec Ind/Phone:(800)424-9300

CAGE:0V1G4

==== Contractor Identification ===

Company Name:GRAIN PROCESSING CORP

Address:1600 OREGON STREET

Box:349

City:MUSCATINE

State:IA

ZIP:52761

Country:US

Phone:319-264-4304

CAGE:0V1G4

Company Name:PHOENIX INDUSTRIES INC

Address:1519 CHAMBERLAYNE PARKWAY

Box:City:RICHMOND

State:VA

ZIP:23222

Country:US

Phone:804-264-5183/FAX: 264-5535

Contract Num:SP0

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

Ingred Name:ETHYL ALCOHOL

CAS:64-17-5

RTECS #:KQ6300000

Minumum % Wt:88.

Maxumum % Wt:96.

OSHA PEL:1900 MG/M3;1000 PPM

ACGIH TLV:1880 MG/M3;1000 PPM

Ingred Name:METHYL ALCOHOL

CAS:67-56-1

RTECS #:PC1400000

Minumum % Wt:4.

Maxumum % Wt:5.

OSHA PEL:260 MG/M3;200 PPM

ACGIH TLV:262 MG/M3;200 PPM

ACGIH STEL:328 MG/M3;250 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

===== Hazards Identif
ication =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:TARGET ORGANS: LIVER, HEART, KIDNEYS.

ACUTE: MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED
THROUGH THE SKIN. CAUSES SKIN, EYE AND UPPER RESPIRATORY TRACT
IRRITATION. CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. CHRONIC
EFFECTS: DAMAGE TO LIVER, D

AMAGE TO HEART, DAMAGE TO KIDNEYS.

WARNING - NOT INTENDED FOR HUMAN CONSUMPTION. CONSUMPTION OF THIS
PRODUCT DURING PREGNANCY CAN CAUSE MENTAL RETARDATION AND OTHER
DEFECTS.

Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER.

Effects of Overexposure:SWALLOWED-HARMFUL. INHALED-HARMFUL. SKIN
ABSORPTION-HARMFUL. CAUSES SKIN, EYE AND UPPER RESPIRATORY
IRRITATION. CAN CAUSE CNS DEPRESSION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES-HOLDING EYELIDS OPEN, FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION. INGESTION-IF PATIENT CONSCIOUS, INDUCE VOMITING WHILE HOLDING HEAD BELOW HIPS. GET PROMPT MEDICAL ATTENTION. INHALATION-REMOVE PATIENT FROM EXPOSURE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET PROMPT MEDICAL ATTENTION. SKIN-FLUSH SKIN WITH WATER AND REMOVE ANY CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

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

Flash Point Method:CC

Flash Point:=12.8C, 55.F

Lower Limits:3.3%

Upper Limits:19%

Extinguishing Media:CARBON DIOXIDE, "ALCOHOL-TYPE FOAM", OR DRY CHEMICAL

Fire Fighting Procedures:NIOSH/MSHA-APPROVED RESPIRATORS SHOULD BE WORN OR SELF-CONTAINED BREATHING APPARATUS. USE WATER SPRAY TO COOL EQUIPMENT AND TO DISPERSE VAPORS. ALCOHOL FLAMES MAY BE DIFFICULT

TO SEE BECAUSE THEY ARE VIRTUALLY COLORLESS.

Unusual Fire/Explosion Hazard:VAPORIZES EASILY AT NORMAL TEMPERATURES. VAPORS CAN TRAVEL TO AN IGNITION SOURCE AND FLASH BACK.

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

Spill Release Procedures:ELIMINATE ALL IGNITION SOURCES. NOTIFY APPROPRIATE AUTHORITIES IMMEDIATELY. WEAR NIOSH-APPROVED RESPIRATOR OR SCBA.TAKE ACTIONS NEEDED TO PREVENT & REMEDY EFFECTS OF THE SPILL.ISOLATE THE AREA TO ONLY PROTECTED PERSONNEL.SHUT OFF LEAK IF SAFE TO DO SO. AVOID RUN-OFF INTO STORM SEWERS & DITCHES WHICH LEAD TO WATERWAYS.CONTAIN & ABSORB WITH INERT MATERIAL.DISPOSE OF IN CHEMICAL WASTE CONTAINER.

Neutralizing Agent:NONE SPECIFIED BY THE MANUFACTURER.

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

Handling and Storage Precautions:MATERIAL IS CLASSIFIED AS A FLAMMABLE MATERIAL. KEEP LIQUID AND ITS VAPORS AWAY FROM HEAT, SPARKS AND FLAME.

Other Precau

tions: AVOID EYE & SKIN CONTACT. AVOID INHALATION OF VAPORS.

THE BUREAU OF ALCOHOL, TOBACCO AND FIREARMS (DEPT OF TREASURY) REGULATES THE PRODUCTION, PROCUREMENT AND USE OF ETHYL ALCOHOL PRODUCTS. ALL USERS MUST COMPLY WITH THESE REGULATIONS. NOT FOR HUMAN CONSUMPTION..

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

Respiratory Protection: AN APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN WHEN ANY EXPOSURE LIMIT IS EXCEEDED.

Ventilation: LOCAL EXHAUST AS NECESSARY TO MEET OSHA PEL LIMITS, SEE INGREDIENTS.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: SAFETY GLASSES WITH SPLASH GUARDS OR GOGGLES.

Other Protective Equipment: EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING. EYE BATH AND SAFETY SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices: NONE SPECIFIED BY THE MANUFACTURER.

Supplemental Safety and Health

NONE SPECIFIED BY THE MANUFACTURER.

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== Physical/Chemical Properties =====

HCC:F5

NRC/State Lic Num: NOT RELEVANT

Boiling Pt:=78.3C, 173.F

Vapor Pres: 44.0 @ 20C

Vapor Density: 1.6

Spec Gravity: 0.789-0.830 @ 60F

Evaporation Rate & Reference: 2.0 (N-BUTYL ACETATE=1)

Solubility in Water: INFINITE

Appearance and Odor: COLORLESS, WATER WHITE LIQUID; MILD, FRAGRANT ODOR

Percent Volatiles by Volume: 100%

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

Stability Indicator/Materials to Avoid: YES

OXIDIZING MA

TERIALS CAN CAUSE VIGOROUS REACTION.

Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAME

Hazardous Decomposition Products:NONE. HOWEVER, AS WITH ANY ORGANIC

MATERIAL, COMBUSTION WILL PRODUCE CARBON DIOXIDE AND POSSIBLY CARBON MONOXIDE.

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

Toxicological Information:NONE SPECIFIED BY THE MANUFACTURER.

===== Ecological Information =====

Ecological:NONE SPECIFIED BY THE MANUFACTURER.

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

Waste Disposal Methods:NONE SPECIFIED BY THE MANUFACTURER.

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

Transport Information:SHIPPING NAME: ETHYL ALCOHOL (DENATURED); HAZARD CLASS: 3; PACKING GROUP: II; PLACARD NUMBER: FLAMMABLE UN1170; EMPTY PLACARD REQUIRED: FLAMMABLE RESIDUE. *NOTE-DLA-HMIS DISAGREES WITH THE SHIPPING NAME AND UN ID NUMBER. THE REASON IS THAT 1-THE SHIPPING NAME DOESN'

'T EXIST IN THAT FORM IN 49 CFR 172.101.

DLA-HMIS STAFF BELIEVES THAT THE PROPER SHIPPING NAME SHOULD BE: ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. 3, UN1986, PGII.

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

SARA Title III Information:SARA TITLE III CATEGORIES: 1-FIRE HAZARD, 2-SUDDEN RELEASE OF PRESSURE, 3-REACTIVE, 4 (ACUTE) HEALTH HAZARD, 5 (CHRONIC) HEALTH HAZARD. THIS CHEMICAL IS OVER THE MINIMUM CONCENTRATION LEVELS AND SUBJECT TO THE REPORTING REQUIREMENTS OF

SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY-RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR 372: METHYL ALCOHOL.

Federal Regulatory Information:NONE SPECIFIED BY THE MANUFACTURER.

State Regulatory Information:NONE SPECIFIED BY THE MANUFACTURER.

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

Disclaimer (provided with this information by the compiling agencies):

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