

SIGMA CHEMICAL COMPANY -- ETHYL ALCOHOL 200 PROOF USP -- 6505-00-104-9000

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

Product ID:ETHYL ALCOHOL 200 PROOF USP

MSDS Date:02/20/1988

FSC:6505

NIIN:00-104-9000

MSDS Number: BKYGP

=== Responsible Party ===

Company Name:SIGMA CHEMICAL COMPANY

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Info Phone Num:(314) 771-5765

Emergency Phone Num:(314) 771-5765

Preparer's Name:

KELLY MCANAUL

CAGE:21076

=== Contractor Identification ===

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Country:US

Phone:314-771-5765

CAGE:21076

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

Ingred Name:ETHYL ALCOHOL (ETHANOL)

CAS:64-17-5

RTECS #:KQ6300000

Fraction by Wt: 100%

Other REC Limits:1900 MG/CUM

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

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

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LD50 LC50 Mixture:ORAL LD50 (RAT): 7060 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:HARMFUL BY INHALATION, INGESTION/SKIN  
ABSORPTION. INHALATION: VAPOR/MIST IS IRRITATING TO EYES, MUCOUS  
MEMBRANES & UPPER RESPIRATORY TRACT. SKIN: IRRITATION. CAN CAUSE  
CNS DEPRESSION, NARCOTIC EFFECT & DAMAGE TO THE HEART, NERVES &  
LIVER.  
Explanation of Carcinogenicity:ALCOHOL HAS BEEN LINK  
ED TO CANCER IN  
HUMANS.  
Effects of Overexposure:IRRITATION, NAUSEA, HEADACHE, VOMITING

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

First Aid:INHALATION: REMOVE TO FRESH AIR. EYES: FLUSH W/COPIOUS  
AMOUNTS OF WATER FOR 15 MINS. INGESTION: WASH OUT MOUTH W/WATER IF  
CONSCIOUS. SKIN: FLUSH W/COPIOUS AMOUNTS OF WATER FOR 15 MINS.  
OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

Flash Point:62F  
Extinguishing Media:CO2, DRY CHEMICAL POWDER/APPROPRIATE FOAM  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS &  
PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL FIRE EXPOSED  
CONTAINERS.  
Unusual Fire/Explosion Hazard:FLAMMABLE LIQUID. VAPOR MAY TRAVEL  
CONSIDERABLE DISTANCE TO SOURCE OF IGNITION & FLASH BACK.

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

Spill Release Procedures:EVACUATE AREA. SHUT OFF ALL IGNITION SOURCES.  
WEAR SCBA, RUBBER BOOTS &  
HEAVY RUBBER GLOVES. COVER  
W/DRY-LIME/SAND/SODA ASH. PLACE IN COVERED CONTAINERS USING  
NON-SPARKING TOOLS & TRANSPORT OUTDOORS. VENTILATE AREA/WASH SITE  
AFTER PICKUP IS COMPLETE.  
Neutralizing Agent:DRY-LIME, SODA ASH

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

Handling and Storage Precautions:KEEP TIGHTLY CLOSED & AWAY FROM HEAT,  
SPARKS, OPEN FLAME & OTHER IGNITION SOURCES, MOISTURE. STORE IN A  
COOL, DRY PLACE.  
Other Precautions:DON'T BREATHE VAPOR

. DON'T GET IN EYES, ON SKIN & ON  
CLOTHING. AVOID PROLONGED/REPEATED EXPOSURE.

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

Respiratory Protection:USE A NIOSH/MSHA APPROVED RESPIRATOR.  
Ventilation:USE ONLY IN A CHEMICAL FUME HOOD.  
Protective Gloves:CHEMICAL RESISTANT, RUBBER  
Eye Protection:CHEMICAL SAFETY GOGGLES  
Other Protective Equipment:RUBBER BOOTS, SAFETY SHOWER & EYE BATH &  
OTHER PROTECTIVE CLOTHING  
Work Hygienic Practices:REMOVE/LAUNDER CONTAMINATED CLOTHI  
NG/SHOES  
BEFORE REUSE.  
Supplemental Safety and Health

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

Boiling Pt:B.P. Text:172.4F  
Spec Gravity:0.794  
Appearance and Odor:CLEAR, COLORLESS LIQUID

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

Stability Indicator/Materials to Avoid:YES  
OXIDIZING AGENTS, PEROXIDES, ACIDS, ACID CHLORIDES, ACID ANHYDRIDES  
ALKALI METALS, AMMONIA  
Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAME/OTHER SOURCES OF  
IGNITION, MOISTURE  
Hazardous Decomposition Products:CO & CO2.

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

Waste Disposal Methods:BURN IN A CHEMICAL INCINERATOR EQUIPPED W/AN  
AFTER BURNER & SCRUBBER, USING EXTRA CARE IN IGNITING AS MATERIAL  
IS HIGHLY FLAMMABLE. OBSERVE ALL FEDERAL, STATE, & LOCAL  
REGULATIONS. UN 1170, UN 1986, U N1987.

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