

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 LINKED 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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