

STARTEX CHEMICAL INC. -- DENATURED ALCOHOL -- 6810-00-201-0906

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

Product ID: DENATURED ALCOHOL

MSDS Date: 05/08/1989

FSC: 6810

NIIN: 00-201-0906

MSDS Number: BTKPL

=== Responsible Party ===

Company Name: STARTEX CHEMICAL INC.

Box: 687

City: CONROE

State: TX

ZIP: 77305

Country: US

Info Phone Num: 409-539-6244

Emergency Phone Num: 409-539-6244

CAGE: OYFV5

=== 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

CAGE: 4N760

Company Name: STARTEX CHEMICAL INC

Address: 5 HACKBERRY LANE

Box: 3087

City: CONROE

State: TX

ZIP: 77305

Country: US

Phone: 800-424-9300(CHEMTREC)/936-539-6244

CAGE: OYFV5

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

Ingred Name: ETHYL ALCOHOL (ETHANOL)

CAS: 64-17-5

RTECS #: KQ6300000

Fraction by Wt: 89%

Other REC

Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9394

Ingred Name:ETHYL ACETATE (SARA III)

CAS:141-78-6

RTECS #:AH5425000

Fraction by Wt: 5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:400 PPM

ACGIH TLV:400 PPM; 9394

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)

CAS:67-56-1

RTECS #:PC1400000

Fraction by Wt: 4%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:S, 200 PPM

ACGIH TLV:S,200PPM/250STEL; 94

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:N-HEPTANE

CAS:142-82-5

RTECS #:MI7700000

Fraction by Wt: 1%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:500 PPM

ACGIH TLV:400 PPM/500STEL;9394

Ingred Name:METHYL ISOBUTYL KETONE (SARA III)

CAS:108-10-1

RTECS #:SA9275000

Fraction by Wt: 1%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM

ACGIH TLV:50 PPM/75 STEL; 9394

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestio

n:YES

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

Health Hazards Acute and Chronic:INHALED:HIGH VAPOR CONCENTRATIONS MAY CAUSE UPPER RESPIRATORY IRRITATION AND NARCOSIS (SLEEPINESS, DIZZINESS). EYE:LIQUID & VAPOR CAUSE IRRITATION. SKIN:LOW HAZARD FOR USUAL INDUSTRIAL HANDLING.

Explanation of Carcinogenicity:HMIS:THIS PRODUCT CONTAINS NO INGREDIENT AT 0.1% OR GREATER THAT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:INHALED:HIGH VAPOR CONCENTRATIONS MAY CAUSE

UPPER RESPIRATORY IRRITATION AND NARCOSIS (SLEEPINESS, DIZZINESS). EYE:LIQUID & VAPOR CAUSE IRRITATION. SKIN:LOW HAZARD FOR USUAL INDUSTRIAL HANDLING.

Medical Cond Aggravated by Exposure:NO INFORMATION GIVEN ON MSDS BY MFR.

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

First Aid:INHALED:REMOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. IF BREATHING IS DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH

WITH PLENTY OF WATER FOR AT

LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF SYMPTOMS ARE PRESENT AFTER WASHING.

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

Flash Point Method:TCC

Flash Point:=-13.3C, 56.F

Lower Limits:3.53

Upper Limits:21.2

Extinguishing Media:USE WATER SPRAY, CARBON DIOXIDE, ALCOHOL FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR SCBA AND PROTECTIVE CLOTHING TO PREVENT CONTACT W/SKIN & EYES. WATER MAY BE INEFFECTIVE. USE WATER SPRAY TO

COOL FIRE EXPOSED CONTAINERS.

Unusual Fire/Explosion Hazard:FLAMMABLE LIQUID & VAPOR. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND OR FLOOR, THEN 'FLASH BACK' FROM A DISTANT IGNITION SOURCE.

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

Spill Release Procedures:ELIMINATE IGNITION SOURCES. SMALL SPILLS MAY BE COLLECTED USING ABSORBENT MATERIALS. USE WATER SPRAY TO DISPERSE VAPORS AND DILUTE TO A NON-FLAMMABLE MIXTURE. PREVENT RUNOFF FROM

ENTERING DRAINS, SEWERS, STREAMS.

Neutralizing Agent:NO INFORMATION GIVEN ON MSDS BY MFR.

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

Handling and Storage Precautions:FLAMMABLE LIQUID. KEEP AWAY FROM HEAT, SPARKS & FLAME. KEEP CONTAINER CLOSED. USE W/ADEQUATE VENTILATION.

Other Precautions:COMPLY W/ALL FEDERAL, STATE & LOCAL CODES PERTAINING TO STORAGE, HANDLING, DISPENSING & DISPOSING OF FLAMMABLE LIQUIDS. 'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPORS

TREAT THEM WITH ALL THE PRECAUTIONS DUE FULL ONES.

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

Respiratory Protection:AN APPROPRIATE NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPOR MUST BE WORN IF EXPOSURE WILL LIKELY EXCEED RECOMMENDED LIMITS. IF RESPIRATORS ARE USED A PROGRAM SHOULD BE ESTABLISHED TO ASSURE COMPLIANCE W/OSHA STANDARD 29CFR1910.134.

Ventilation:GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR) SHOULD BE USED. VENTILATION RATES SHOULD MATCH CONDITIONS.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:MFR: ? HMIS:USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

LOCAL EXHAUST VENTILATION OR AN ENCLOSED HANDLING SYSTEM MAY BE NEEDED TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

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

HCC:F5

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=77.8C, 172.F

Vapor Pres:40 MM

Vapor Density:1.59

Spec Gravity:0.79

Solubility in Water:APPRECIABLE

Appearance and Odor:CLEAR LIQUID, ALCOHOL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING MATERIALS MEY CAUSE A VIGOROUS REACTION.

Stability Condition to Avoid:NO INFORMA

TION GIVEN ON MSDS BY MFR.

Hazardous Decomposition Products:AS W/ANY THER ORGANIC MATERIAL,
COMBUSTION WILL PRODUCE CARBON DIOXIDE AND PROBABLY CARBON
MONOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR

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

Waste Disposal Methods:MIX WITH COMPATIBLE CHEMICAL WHICH IS LESS
FLAMMABLE AND INCINERATE. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS
CONCERNING HEALTH AND ENVIRONMENT.

Disclaimer (provided with this i
nformation by the compiling agencies):

This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.