

OCTAGON PROCESS INC. -- O-E-760 D TYPE 3 ETHANOL,DENATURED -- 6810-00-201-0904  
===== Product Identification =====

Product ID:O-E-760 D TYPE 3 ETHANOL,DENATURED

MSDS Date:05/15/1990

FSC:6810

NIIN:00-201-0904

MSDS Number: BDJHF

=== Responsible Party ===

Company Name:OCTAGON PROCESS INC.

Address:596 RIVER ROAD

City:EDGEWATER

State:NJ

ZIP:07020-1105

Country:US

Info Phone Num:201-945-9400

Emergency Ph

one Num:201-945-9400

CAGE:82925

=== Contractor Identification ===

Company Name:OCTAGON PROCESS INC.

Address:596 RIVER ROAD

Box:City:EDGEWATER

State:NJ

ZIP:07020

Country:US

Phone:201-945-9400

CAGE:82925

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

Ingred Name:ETHYL ALCOHOL (ETHANOL)

CAS:64-17-5

RTECS #:KQ6300000

Fraction by Wt: 95%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

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

CAS:67-56-1

RTE

CS #:PC1400000  
Fraction by Wt: 5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:S,200PPM/250STEL  
ACGIH TLV:S,200PPM/250STEL; 93  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 7060 MG/KG (ETHANOL)  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and  
Chronic:ACUTE-EYE/SKIN/INHALATION:IRRITATION.METHANOL IS TOXIC  
CAUSING CNS DEPRESSION.INGESTION:MAY BE FATAL.CHRONIC-DAMAGE TO THE  
LIVER, HEART, AND KIDNEYS.METHANOL IS VERY TOXIC TO THE OPTIC  
NERVE, CAUSING SIGHT DISTURBANCES AND BLINDNESS WELL BELOW THE  
TOXIC AMOUNT.CHRONIC-DERMATITIS,POSSIBLE KIDNEY & LIVER DAMAGE.  
Effects of Overexposure:EYE:IRRITATION.SKIN:IRRITATION,DEFATTING.CAN BE  
ABSORBED THROUGH THE  
SKIN.INHALED:HEADACHE,DROWSINESS,LASSITUDE,LOSS OF  
APPETITE,INABILITY TO CONCENTRATE.INGESTED:G/I  
IRRITATION,NAUSEA,VOMIT  
ING,DIARRH EA,CENTRAL NERVOUS SYSTEM  
DEPRESSION.MAY CAUSE BLINDNESS AND/OR DEATH.  
Medical Cond Aggravated by Exposure:NO DATA AVAILABLE.

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

First Aid:EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN.GET MEDICAL  
AID.SKIN:WASH WITH WATER.REMOVE CONTAMINATED CLOTHING AND LAUNDER  
BEFORE REUSE.INHALED:REMOVE TO FRESH AIR.GET MEDICAL  
ATTENTION.INGESTED:IF PATIENT IS CONSCIOUS,INDUCE VOMITING. GET  
IMMEDIATE MEDICAL CARE. G  
IVE NOTHING BY MOUTH IF UNCONSCIOUS.

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

Flash Point:=12.8C, 55.F  
Lower Limits:3.3  
Upper Limits:19.0  
Extinguishing Media:CARBON DIOXIDE, ALCOHOL-TYPE FOAM, OR DRY CHEMICAL.  
Fire Fighting Procedures:NIOSH-APPROVED RESPIRATOR SHOULD BE WORN. USE  
WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.ALCOHOL  
FLAMES MAY BE DIFFICULT TO SEE (COLORLESS FLAME).  
Unusual Fire/Explosion Hazard:VAPORS FORM FROM THIS PRODUCT AND MAY

TRAVEL OR MOVE BY AIR CURRENT TO AN IGNITION SOURCE AND FLASH BACK.

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

Spill Release Procedures: VENTILATE AREA. WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING. CONTAIN SPILLED MATERIAL. TRANSFER TO SECURE CONTAINERS. ELIMINATE ANY SOURCE OF IGNITION. WASH RESIDUE WITH WATER.

Neutralizing Agent: NOT APPLICABLE.

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

Handling and Storage

Precautions: STORE IN A FLAMMABLE LIQUID STORAGE ROOM OR CABINET. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions: 'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPORS. TREAT THEM WITH ALL THE PRECAUTIONS DUE FULL ONES. NOT FOR HUMAN CONSUMPTION. THE BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS REGULATES THE PRODUCTION, PROCUREMENT, AND USE OF ETHYL ALCOHOL.

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

Res

piratory Protection: RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH-APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR ORGANIC VAPOR IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.

Ventilation: LOCAL EXHAUST AS NECESSARY TO MEET TWA LIMITS.

Protective Gloves: NEOPRENE, NITRILE, PVC OR NATURAL RUBBER

Eye Protection: SAFETY GLASSES OR SPLASH GOGGLES

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE

WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

POISON - DANGER! CONTAINS METHANOL; MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED.

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

HCC: F5

NRC/State Lic Num: NOT RELEVANT

Boiling Pt: =73.9C, 165.F

Vapor Pres: 48

Vapor Density: 1.4

Spec Gravity: 0.81

Evaporation Ra

te & Reference:1.4 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS,CLEAR LIQUID;ALCOHOL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS

Stability Condition to Avoid:HEAT, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:CARBON DIOXIDE AND POSSIBLY CARBON MONOXIDE

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

Waste Disposal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. DGSC-SSH SUGGESTS THAT DISPOSAL MAY BE DONE BY INCINERATION. UNDER EPA-RCRA (40CFR261.33) IF METHANOL BECOMES A WASTE MATERIAL,HAZARDOUS WASTE # IS U154.REFER TO LATEST EPA FOR PROPER DISPOSAL.

Disclaimer (provided with this information 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.