

## **UNRESOLVE 411**

### **MSDS Number**

BLSMB

### **National Stock Number**

6850-00N022553

### **Product Name**

UNRESOLVE 411

### **Manufacturer**

DYNALLOY INC

### **Product Identification**

Product ID:UNRESOLVE 411

MSDS Date:09/01/1989

FSC:6850

NIIN:00N022553

MSDS Number: BLSMB

### **Responsible Party**

DYNALLOY INC

7 GREAT MEADOW LANE

HANOVER , NJ 07936

US

Emergency Phone: 201-887-9270

Info Phone: 201-887-9270

Preparer: JAY W PARTON

Cage: 27905

### **Contractor**

DYNALLOY, INC.

INDIANAPOLIS, IN 46203

US

317-788-9925;703-527-3887

Cage: 27908

### **Ingredients**

METHYL ALCOHOL (METHANOL) (SARA III)

CAS: 67-56-1

RTECS: PC1400000

Fraction By Weight: 60-80%

OSHA PELs,200PPM/250STEL

ACGIH TLV: S,200PPM/250STEL; 93

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

POTASSIUM HYDROXIDE (SARA III)

CAS: 1310-58-3

RTECS: TT2100000

Fraction By Weight: 1-8%

OSHA PELC, 2 MG/M3

ACGIH TLV: C 2 MG/M3; 9192

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

## Hazards

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:ACUTE: EYE/SKIN IRRIT, TINGLING, NUMBNESS, NAUSEA, ABDOMINAL PAIN, VOMIT, HDCH, DIZZ, SHORTNESS OF BRTH, WEAKNESS, FATIGUE, LEG CRAMPS, RESTLESSNESS, CONFUSION, DRUNKEN BEHAVIOR, VISUAL DISTURBANCES, DROWSINESS, COMA. WITH MASSIVE OVERDOSES, LIVER, KIDNEY & HEART MUSCLE INJURY HAVE BEEN DESCRIBED. (SEE EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ: CHRONIC: LONG-TERM RPTD OVEREXP TO METHANOL VAP CONC OF 3000 PPM/GREATER MAY ALLOW A CUMULATIVE EFT TO OCCUR W/RESULTING NAUS, VOMIT, HDCH, RINGING IN EARS, INSOMNIA, TREMBLING, UNSTEADY GAI T, VERTIGO, CLOUDED & DOUBLE VISION. LIVER AND/OR KIDNEY INJURY MAY OCCUR. PRLNGD OVEREXP AT LEVELS OF (SUPP DATA)

Medical Cond Aggravated by Exposure:EXISTING SKIN CONDITIONS, (E.G., EXZEMA), EXISTING LIVER AND/OR KIDNEY DISEASES.

## First Aid

First Aid:INHAL: REMOVE TO FRESH AIR. GIVE ARTF RESP IF NOT BRTHG. O2 MAY BE GIVEN BY QUALIFIED PERS IF BRTHG IS DFCLT. OBTAIN MD ATTN. EYE: IMMED FLUSH THORO W/WATER & CONTINUE WASHING FOR AT LEAST 15 MIN. OBT AIN MD ATTN. SKIN: FLUSH W/WATER. OBTAIN MD ATTN. INGEST: IF CONSCIOUS & HAS A GAG REFLEX, GIVE 2 GLASSES OF WATER. INDUCE VOMIT. CALL MD URGENTLY. ADMINISTER ETHANOL (WHISKEY, BRANDY, ETC.)(SUP DAT)

## Fire Fighting

Flash Point Method:CC

Flash Point:52.0F,11.1C

Lower Limits:6%

Upper Limits:36%

Extinguishing Media:DRY CHEMICAL, CO2, WATER SPRAY, ALCOHOL FOAM.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROT EQUIP . USE WATER SPRAY TO COOL FIRE-EXPOS CNTNRS & STRUCTURES. APPROACH METHANOL FIRE W/CAUTION; (SUPP DATA)

Unusual Fire/Explosion Hazard:VAPS FORM FROM THIS PROD & MAY TRAVEL/BE MOVE BY AIR CURRENTS & IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPKS, HEATERS, ELEC EQUIP, STATIC DISCHARGES/ (SUPP DATA)

## Accidental Release

Spill Release Procedures:EXTING & DO NOT TURN ON ANY IGNIT SOURCE UNTIL AREA IS DETERMINED TO BE FREE FROM EXPLOSION/FIRE HAZ. WEAR SUITABLE PROT EQUIP. SMALL SPILLS SHOULD BE FLUSHED W/LG QUANTITIES OF WATER. LARGER SPILLS S HOULD BE COLLECTED FOR DISPSOAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:FLAMM. STORE IN FIRE PROOF CABINET.

KEEP AWAY FROM HEAT, SPARKS, & FLAME. USE WITH ADEQUATE VENTILATION. KEEP CONTAINER CLOSED.

Other Precautions:AVOID CONT W/EYES, SKIN & CLTHG. AVOID BREATHING VAP.

HARMFUL/FATAL IF SWALLOWED. MAY CAUSE EYE DAMAGE & BLINDNESS IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF INHALED. MAY CAUSE DIZZ & DROWSINESS. MAY CAUSE HEART MUSCLE DAM.

## Exposure Controls

Respiratory Protection: NIOSH/MSHA APPROVED SCBA IN HIGH VAPOR CONCENTRATIONS.  
Ventilation: LOCAL EXHAUST: WELL VENTILATED AREA. MECHANICAL (GENERAL): EXHAUST HOOD. SPECIAL: EXPLOSION PROOF.  
Protective Gloves: CHEMICAL RESISTANT GLOVES (NEOPRENE).  
Eye Protection: CHEMICAL WORKERS GOGGLES .  
Other Protective Equipment: CHEMICAL APRON.  
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.  
Supplemental Safety and Health  
FIRE FIGHT PROC: METHANOL BURNS W/AN ALMOST INVISIBLE FLAME IN DAYLIGHT. EXPLO HAZ: OTHER IGNIT SOURCES AT LOCATIONS DISTANT FROM PROD HANDLING POINT. ALKALI METALS, ACIDS, ALDEHYDES, ACYL CHLORIDES. HLTH HAZ: 800-1000 PPM MAY RESULT IN SEV EYEDAM IN SOME PERS. FIRST AID PROC: 30 ML EVERY 3 HOURS, UNTIL MD HELP IS OBTAINED.

## Chemical Properties

HCC: F6  
Boiling Pt: B.P. Text: 149F, 65C  
Vapor Pres: 96 @ 20C  
Vapor Density: 1.1  
Spec Gravity: 0.891  
pH: 13.7  
Evaporation Rate & Reference: 5.8 (BUAC=1)  
Solubility in Water: COMPLETE  
Appearance and Odor: (MIXTURE) BLUE LIQUID, MILD ALCOHOLIC ODOR.  
Percent Volatiles by Volume: 100

## Stability

Stability Indicator/Materials to Avoid: YES  
ALKALI METALS, ACIDS, ALDEHYDES, ACYL CHLORIDES.  
Stability Condition to Avoid: HEAT FLAME, IGNITION SOURCES.  
Hazardous Decomposition Products: CO, CO2.

## Disposal

Waste Disposal Methods: INCINERATE IN A FURNACE WHERE PERMITTED UNDER APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS.

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