

EM DIAGNOSTIC SYSTEMS INC -- 660 MAY-GRUNWALD STAIN -- 6550-01-261-5883

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

Product ID:660 MAY-GRUNWALD STAIN

MSDS Date:11/01/1989

FSC:6550

NIIN:01-261-5883

MSDS Number: BRCCX

=== Responsible Party ===

Company Name:EM DIAGNOSTIC SYSTEMS INC

Address:480 DEMOCRAT RD

City:GIBBSTOWN

State:NJ

ZIP:08027

Country:US

Info Phone Num:609-423-6300

Emergency Phone Num:609-423-630

0

CAGE:0GDF9

=== Contractor Identification ===

Company Name:EM SCIENCE, A DIVISION OF EM INDUSTRIES

Address:480 DEMOCRAT RD

Box:70

City:GIBBSTOWN

State:NJ

ZIP:08027

Country:US

Phone:856-423-6300

CAGE:0GDF9

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

Ingred Name:METHANOL (METHYL ALCOHOL), COLUMBIAN SPIRITS

CAS:67-56-1

RTECS #:PC1400000

Fraction by Wt: 99%

Other REC Limits:200 PPM

OSHA PEL:260 MG/CUM

ACGIH TLV:262 MG/CUM (SKIN)

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:LDLO ORAL (HUMAN): 340 MG/KG

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

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

Health Hazards Acute and Chronic:INGESTION/INHALATION: DEATH W/AS AS  
LITTLE AS 30 ML. EYES/SKIN: IRRITATION. MAY ALSO CAUSE BLINDNESS &  
CNS EFFECTS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, HEADACHE, DRUNKENESS, DROWSINESS,  
BLURRED  
VISION.

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

First Aid:EYES: WASH W/LARGE AMOUNTS OF WATER. SKIN: FLUSH W/WATER.  
INHALATION: REMOVE TO FRESH AIR. GIVE CPR IF NECESSARY. OBTAIN  
MEDICAL ATTENTION IN ALL CASES.

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

Flash Point Method:OC

Flash Point:51.19F

Lower Limits:6

Upper Limits:36.5

Extinguishing Media:ALCOHOL FOAM, DRY CHEMICAL, CO2

Fire Fighting Procedures:METHYL ALCOHOL WILL ATTACK  
SOME FORMS OF

PLASTIC, RUBBER & COATINGS. MAY ALSO REACT W/METALLIC ALUMINUM AT  
HIGH TEMPERATURES.

Unusual Fire/Explosion Hazard:MODERATE HAZARD WHEN EXPOSED TO FLAME.  
VIOLENT REACTIONS W/CHROMIC OXIDE (IODINE + ETHANOL + MERCURIC  
OXIDE), LEAD PERCHLORATE, PERCHLORIC ACID. (SEE SUPP)

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

Spill Release Procedures:REMOVE ALL IGNITION SOURCES. VENTILATE AREA.  
ABSORB SMALL QUANTITIES W/PAPER TOWELS. EVAPORATE UNDER  
HOOD. DON'T  
LET METHANOL ENTER A CONFINED SPACE/SEWER DUE TO POSSIBLE  
EXPLOSION.

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

Handling and Storage Precautions:STORE IN A COOL TEMPERATURE CONTROLLED  
AREA. KEEP AWAY FROM OPEN FLAME. KEEP CONTAINER CLOSED. USE  
W/ADEQUATE VENTILATION.

Other Precautions:KEEP AWAY FROM HEAT, SPARKS, & OPEN FLAME. AVOID  
CONTACT W/EYES, SKIN, CLOTHING & BREATHING OF VAPORS.

===== Exposure Controls/Personal Protecti

on =====

Ventilation:LOCAL EXHAUST/HOOD

Protective Gloves:RECOMMENDED

Eye Protection:SAFETY GOGGLES

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. REMOVE/LAUNDER  
CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

UNUSUAL FIRE CONT'D: PHOSPHORUS TRIOXIDE (POTASSIUM HYDROXIDE +  
CHLOROFORM), (SODIUM HYDROXIDE + CHLOROFORM).

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

Boiling Pt:B.P. Text:148.28F

Melt/Freeze Pt:M.P/F.P Text:-144.4  
F

Vapor Pres:100

Vapor Density:1.11

Spec Gravity:0.791

Evaporation Rate & Reference:(BU AC = 1): 5.9

Solubility in Water:MISCIBLE

Appearance and Odor:SLIGHT ALCOHOLIC ODOR.

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

Stability Indicator/Materials to Avoid:YES

OXIDIZERS, PLASTIC RUBBER, COATINGS, METALLIC ALUMINUM.

Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAME, HIGH TEMP.

Hazardous Decomposition Products:FORMALDEHYDE, CO & TOXIC GASES.

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Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IAW/FEDERAL, STATE & LOCAL  
REGULATIONS.

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