

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

Product ID:EC-678-M INDUSTRIAL ADHESIVE

MSDS Date:01/01/1992

FSC:8040

NIIN:00-262-9060

MSDS Number: BRNKR

=== Responsible Party ===

Company Name:MINNESOTA MINING AND MFG CO

Address:3M CTR

City:SAINT PAUL (FORMALLY IN DETROITT, MI)

State:MN

ZIP:55144-1000

Country:US

Info Phone Num:612-733-1341/612-733-1110

Emergency Phone Num:612-733-1341

Preparer

's Name:C. A. EISENHARD

CAGE:76381

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

Company Name:MINNESOTA MINING AND MFG CO, DBA 3M

Address:3M CENTER BLDG 224-5S-04

Box:City:SAINT PAUL

State:MN

ZIP:55144-1000

Country:US

Phone:866-556 5712 / 612-733-1110

CAGE:76381

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

Ingred Name:METHYL

ETHYL KETONE  
CAS:78-93-3  
RTECS #:EL6475000  
Fraction by Wt: 50-60%  
Other REC Limits:NONE SPECIFIED  
ACGIH TLV:200 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:POLY (VINYLIDENE CHLORIDE)  
CAS:9002-85-1  
Fraction by Wt: 40-50%  
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EXPOSURE TO VAPOR  
CONCENTRATIONS IN

EXCESS OF RECOMMENDED EXPOSURE LIMITS MAY RESULT IN RESPIRATORY  
SYSTEM IRRITATION & TEMPORARY NERVOUS SYSTEM IMPAIRMENT. SYMPTOMS  
OF OVEREXPOSURE INCLUDE DIZZINESS, WEAKNESS, HEADACHE, NAUSEA,  
LOSS OF CO-ORDINATION & IN THE EXTREME STUPOR. INGESTION: DIGESTIVE  
SYSTEM IRRITATION.

Effects of Overexposure:EYE: LIQUID/VAPOR, EYE IRRITATION. SKIN:

PROLONGED CONTACT CAUSE DRY, CRACKED SKIN LEADING TO INFECTION &  
DERMATITIS. INGESTION: TEMPORARY NERVOUS SYS

TEM IMPAIRMENT.

SYMPTOMS OF OVEREXPOSURE INCLUDE N AUSEA, VOMITING, DIARRHEA,  
DIZZINESS. SOLVENT ASPIRATION INTO LUNGS DUE TO VOMITING CAUSE LUNG  
DAMAGE, IN EXTREME,DEATH.

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

First Aid:EYE: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR  
AT LEAST 10 MINUTES. CALL A PHYSICIAN. SKIN: WASH AFFECTED AREA  
WITH SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. CALL A  
PHYSICIAN. INGEST ION: DO NOT INDUCE VOM  
ITING. IMMEDIATELY CALL A  
PHYSICIAN OR POISON CONTROL CENTER.

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

Flash Point:20.0F,-6.7C

Lower Limits:1.80 %

Upper Limits:11.50 %

Extinguishing Media:CO2, FOAM, DRY CHEMICAL

Fire Fighting Procedures:FIRE-FIGHTERS SHOULD BE EQUIPPED WITH  
SELF-CONTAINED BREATHING APPARATUS (SCBA) WHEN FIGHTING FIRES  
INVOLVING THIS MATERIAL.

Unusual Fire/Explosion Hazard:EXTREMELY FLAMMABLE. OVERHEATED, CLOSED  
CONTAINERS ADJACENT TO

FIRE COULD EXPLODE DUE TO INTERNAL PRESSURE BUILDUP.

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

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. VENTILATE THE AREA. CONTAIN THE SPILL. COVER WITH ABSORBENT MATERIALS AS NEEDED. COLLECT THE SPILLED MATERIAL USING NON-SPARKING TOOLS. PLACE IN A U.S. DEPT OF TRANSPOR TATION APPROVED METAL CONTAINER & SEAL.

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

Handling and Storage Precautions:KEEP PRODUCT & ITS VAPORS AWAY FROM HEAT, SPARKS, OPEN FLAME & OTHER SOURCES OF IGNITION. EXTINGUISH ALL IGNITION SOURCES. VAPORS CAN IGNITE EASILY.  
Other Precautions:GROUND CONTAINERS WHEN TRANSFERING PRODUCT TO PREVENT STATIC ELECTRICITY.

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

Respiratory Protection:BASED UPON CONTAMINATION LEVELS IN THE WORK PLACE. AVOID PROLONGED BREATHING OF VAPORS.  
Ventilation:LOCAL EXHAUST VENTILATION (E.G.) SPRAY BOOTH IF NEED TO KEEP VAPOR CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS.  
Protective Gloves:IMPERVIOUS GLOVES  
Eye Protection:CHEMICAL GOGGLES  
Other Protective Equipment:IMPERVIOUS CLOTHING, QUICK DRENCH SHOWER, EYE WASH FOUNTAIN.  
Supplemental Safety and Health

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

HCC:F2  
Boiling Pt:B.P. Text:175F,79C  
Vapor Pres:80 @ 68F  
Vapor Density:2.50  
Spec Gravity:1.000  
Viscosity:11000.0 CPS  
Evaporation Rate & Reference:2.70  
Sol

ubility in Water:SLIGHT

Appearance and Odor:BLACK, THIN, SYRUP, KETONE ODOR

Percent Volatiles by Volume:57.000

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:CO, CO2, HCl, & NITROGEN DECOMPOSITION  
PRODUCTS WHEN SUBJECTED TO EXCESSIVE HEAT OR FLAME.

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

Waste Disposal Methods:INCINERATE ABSORBED & BULK PRODUCT AFTER MIXING  
WIT  
H FLAMMABLE MATERIAL IN A LICENSED HAZARDOUS WASTE FACILITY.  
DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGULATIONS. U.S.  
EPA HAZARDOUS WASTE N O. D001 IGNITABLE.

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