

MINNESOTA MINING & MFG CO ADHESIVES & SEALERS DIV -- EC-776 FUEL RESISTANT COATING
-- 8040-00-597-9723

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

Product ID:EC-776 FUEL RESISTANT COATING

MSDS Date:08/13/1996

FSC:8040

NIIN:00-597-9723

MSDS Number: BTSPD

=== Responsible Party ===

Company Name:MINNESOTA MINING & MFG CO ADHESIVES & SEALERS DIV

Address:3M CENTER

City:SAINT PAUL

State:MN

ZIP:55144-1000

Country:

US

Info Phone Num:612-733-1110

Emergency Phone Num:612-733-1110

CAGE:76381

=== Contractor Identification ===

Company Name:3M MINNESOTA MINING AND MFG CO ADHESIVES SEALERS DIV

Address:3M CTR

Box:City:SAINT PAUL

State:MN

ZIP:55144-1000

Country:US

Phone:800-364-3577/651-737-6501(24 HOURS)

CAGE:04963

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

Company Name:MINNES

OTA MINING AND MFG CO AEROSPACE MATERIALS DEPT

Address:3M CTR

Box:City:SAINT PAUL

State:MN

ZIP:55144-1000

Country:US

Phone:612-737-4114/612-733-1110

CAGE:0KHE3

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

Ingred Name:METHYL ISOBUTYL KETONE (HEXONE) (SARA 313) (CERCLA)

CAS:108-10-1

RTECS #:SA9275000

Fraction by Wt: 60-70%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM

ACGIH TLV:50 PPM/75 STEL; 9596

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:PHENOL FORMAL

DEHYDE RESIN

CAS:9003-35-4

Fraction by Wt: 10-20%

Other REC Limits:NONE RECOMMENDED

Ingred Name:ACRYLONITRILE BUTADIENE POLYMER

CAS:9003-18-3

Fraction by Wt: 10-20%

Other REC Limits:NONE RECOMMENDED

Ingred Name:ETHYL ALCOHOL (ETHANOL)

CAS:64-17-5

RTECS #:KQ6300000

Fraction by Wt: 1-10%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9596

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA 313) (CERCLA)

CAS:67-56-1

RTECS #:PC1400000

Fraction by Wt: 0.1-1%

Other REC Limits:NONE

RECOMMENDED
OSHA PEL:S, 200 PPM
ACGIH TLV:S,200PPM/250STEL; 96
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL ACETATE (CERCLA)
CAS:141-78-6
RTECS #:AH5425000
Fraction by Wt: 0.01-.1%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:VOLITILE ORGANIC CONTENT AS LISTED ON MSDS, 647GMS/LITER
SOUTH COAST AIR QUALITY MGMT DIST METHOD RULE 443.1 CALCULATED
RTECS #:9999999VC
Fraction by Wt: NA
Other REC Li
mits:NONE RECOMMENDED

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

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:EYE:MODERATE IRRIT.SKIN:MILD IRRIT(AFT
PROL/REP CONTACT).INHAL:CNS DEPRESSION,IRRIT(UPPER RESP).INGEST:GI
TISSUE IRRIT.FOLLOWING EFFECTS ASSOC W/1OR MORE INDIVIDUAL INGREDIENTS
IN PROD & REQUIRED TO BE IN C
LUDED ON MSDS THEYRE NOT EXPECTED
EFFECTS DURING FORESEEABLE USE:INHAL-KIDNEY EFFECTS,LIVER
EFFECTS,(SIGN/SYMPOM)
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGENS.
Effects of Overexposure:HEALTH:INGEST-CNS DEPRESS,ASPIRATION PNEUITIS.
EYE-RED,SWELL,PAIN,TEAR,HAZY
VISION.SKIN-RED,SWELL,ITCH.INHAL=CNS-HEAD,DIZZ,DROWS,INCOORD,SLOW
RX TIME,SLUR SPEECH,GIDDINESS,UNCONSC.IR

RIT RESP-SORE NOSE

/THROAT,COUGH,SNEEZE.GI IRRIT-PAIN,VOMIT,ABD TENDER,NAU,BLOOD IN VOMITUS & FECES.KID-RED URINE VOL,BLOOD,BKPAIN,LIV-JAUN

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYE:IMMED FLUSH W/LG AMTS OF WATER.GET IMMED MED ATTN.SKIN:FLUSH W/LG AMTS OF WATER.IRRIT PERSIST GET MED ATTN.INHAL:REMOVE TO FRESH AIR.NOT BREATHING GIVE ART RESPIRATION.BREATH DIFFI GET IM MED MED A TTN.INGEST:CALL PHYSICIAN IMMED.OONLY INDUCE VOMITING @INSTRUCTION OF PHYSICIAN.NEVER GIVE ANYTHING BY MOUTH IF UNCONSC.

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

Flash Point:50.0F,10.0C

Autoignition Temp:Autoignition Temp Text:N/DETR

Lower Limits:1.40

Upper Limits:19.0

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM.

Fire Fighting Procedures:WEAR FULL PROT CLOTH INCLUDE HELMET,SELF-CONTAIN POSITIVE PRESSURE/PRESSURE DEMAND BREATH APPA

RATUS,BUNKER COAT,PANTS,BANDS AROUND ARMS/WAIST/LEGS,FCMASK(SUPPL)

Unusual Fire/Explosion Hazard:CLSD CNTNR EXPO TOHEAT FROM FIRE MAY BUILD PRESSURE & EXPLODE.VAP MAY TRAVEL LONG DISTANCES ALONG GROUND OR FLOOR TO IGN SOURCE & FLASH BACK.

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

Spill Release Procedures:REFER TO OTHER MSDS SECS.IN USA CALL 612-733-1110 OR 612-733-6100 FOR 24HR SPILL ASSISTANCE.VENTI AREA.EXTINGUISH ALL IGN SOURCES.COVER W/ABSORBEN

T AMTL.COLLECT

USING NON-SPARK TOOLS.PLACE IN DOT APPR OVED CNTNR.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CNTNR CLSD WHEN NOT IN USE.KEEP OUT OF REACH OF CHILDREN.KEEP CNTNR TIGHTLY CLSD.FLAMM LIQ/VAP.KEEP AWAY FRM HEAT/SPARK/OPN FLAME/OTHER IGN SOURC

Other Precautions:GROUND CNTNRS SECRELY WHEN TRANSFERING CONTENTS.WEAR LOW STATIC OR PROPERLY GROUNDED SHOES.AOV

ID STATIC DISCHARGE.

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

Respiratory Protection:IF EXHAUST VENTI NOT ADEQUATE USE APPROPRIATE
RESP PROTECTION.SELECT ONE OF FOLLOWING NIOSH APPROVED RESP BASED
ON AIRBORNE CONCEN OF CONTAM & IAW OSHA REGS:HALF-MASK ORG VAP
RESPIRATOR,HALF-MASK ORG VAP RESP W/DUST/MIST PREFILT.

Ventilation:USE W/FUNCTION SPRAY BOOTH/LOC EXHAU.USE IN WELL-VENTI
AREA.PROVIDE SUFFI VENTI TO MAINTAIN EMISSIONS BEL EXPO LIMITS.

Protecti

ve Gloves:BUTYL RUB,POLYETHYLENE/ETHYLENE (SUPPLE)

Eye Protection:VENTED GOGG,SAF GLASSES W/SIDESHIELDS

Other Protective Equipment:WEAR APPROPRIATE GLOVES WHEN HNDLG MATL.

Work Hygienic Practices:AVOID SKIN CONTACT.AVOID EYE CONTACT

W/VAP/SPRAY/MIST.AVOID BREATH VAP/MIST/SPRAY.DONT INGEST.

Supplemental Safety and Health

BOILING PT FOR ETHYL ALCOHOL. FIREFIGHT:PROTECTIVE COVERING FOR EXPO

AREA OF HEAD. DISPO:APPLICABLE REGS OR AUTHORITIES BEF DISPO.EPA

HAZ WASATE #:D001(IGNITABLE). GL

OVES:VINYL ALCOHOL,POLYTETRAFLUORO

ETHYLEN(TEFLON).

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

HCC:F2

Boiling Pt:B.P. Text:164F,73C

Melt/Freeze Pt:M.P/F.P Text:N/DETERMINE

Decomp Temp:Decomp Text:NP

Vapor Pres:42 @68F

Vapor Density:3.00

Spec Gravity:0.880

pH:NA

Viscosity:950.0CENTISTK

Evaporation Rate & Reference:>5.00, ETHER=1

Solubility in Water:INSOLUBLE

Appearance and Odor:THIN LIQUID, TRANSPARENT AMBER, CHARACTERISTIC
KETONE ODOR

Percent Volatiles by

Volume:74

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:CO,CO2,OXIDES OF NITROGEN,HYDROGEN
CYANIDE,ALDEHYDES,KETONES,HYDROCARBONS.

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

Waste Disposal Methods:CONTAINS CHEM SUBJ TO REPORTING REQMTS OF SEC
313 TITLE III EPCR

A/40CFR372.INCINERATE IN PERMITTED HAZ WATE

INCINERATOR IN PRESENCE OF COMBUTIBLE MATL.DISPO OF WASTE PRODUCT
IN FACILITY PERMITTED TO A CCEPT CHEM WASTE.SINCE REGS VARY
CONSULT(SUPPLEME)

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 liabil

ity 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.