

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:MINNE

SOTA 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

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===== 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 FORMA

LDEHYDE 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 L
imits: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 INGREGDS
IN PROD & REQUIRED TO BE IN
CLUDED ON MSDS THEYRE NOT EXPECTED
EFFECTS DURING FORESEEABLE USE:INHAL-KIDNEY EFFECTS,LIVER
EFFECTS,(SIGN/SYMPATOM)
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.I

RRIT 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.

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===== 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 IMMED MED A TTN.INGEST:CALL PHYSICIAN IMMED.OONLY INDUCE VOMITING @INSTRUCTION OF PHYSICIAN.NEVER GIVE ANYTHING BY MOUTH IF UNCONSC.

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===== 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 APP

ARATUS,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.

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===== 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/ABSORBE

NT AMTL.COLLECT

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

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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===== 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.AO

VID 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.

Protect

ive 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). G

LOVES: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 EPC

RA/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)

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