

MINNESOTA MINING AND MFG CO (AEROSPACE MTRL DEPT) -- SCOTCH-WELD AF-191
STRUCTURAL ADHESIVE FILM,AF-191 -- 8040-01-294-3256

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

Product ID:SCOTCH-WELD AF-191 STRUCTURAL ADHESIVE FILM,AF-191

MSDS Date:10/29/1992

FSC:8040

NIIN:01-294-3256

MSDS Number: BTTLQ

=== Responsible Party ===

Company Name:MINNESOTA MINING AND MFG CO (AEROSPACE MTRL DEPT)

Address:3M CTR 224-2S-25

City:ST. 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:866-556 571

2 / 612-733-1110

CAGE:76381

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

Ingred Name:POLYMERIC EPOXY REACTION PRODUCT (M.W.>700) - CAS # = TRADE
SECRET.

Fraction by Wt: 40 - 70%

Other REC Limits:NONE RECOMMENDED

Ingred Name:EPOXY RESIN

CAS:28768-32-3

Fraction by Wt: 15 - 40%

Other REC Limits:2 PPM

Ingred Name:P,P'-DIAMINODIPHENYL SULFONE (4-AMINOPHENYL SULFONE)

CAS:80-08-0

RTECS #:BY8925000

Fraction by Wt: 15 - 40%

Other REC Limits:0.1 PPM

CAS:63738-22-7

Fraction by Wt: 7 - 13%

Other REC Limits:7.6 MG/M3

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

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

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY TRACT. ACUTE- INHALE:VAPORS OF HEATED MATERIAL/DUST FROM GRINDING, CUTTING/MACHINING MAY CAUSE IRRITATION OF RESPIRATORY TRACT. EYES:IRRITATION. SKIN:IRRITATION, ALLERGENIC REACTIONS.

ORAL:IRRITATION OF GI TRACT. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION OF EYES, SKIN, RESPIRATORY AND GASTROINTESTINAL TRACTS; EYE REDNESS, SWELLING, PAIN AND TEARING; SKIN ITCHING, REDNESS, SWELLING AND BLISTERING; COUGHING. ABDOMINAL PAIN, VOMITING, NAUSEA, BLOOD IN VOMITOUS AND FECE

Medical Cond Aggravated by Exposure:SKIN AND LUNG DISORDERS.

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First Aid Measures
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First

Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK TWO GLASSES OF WATER. GET MEDICAL ATTENTION.

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Fire Fighting Measures
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Flash Point:NOT RELEVANT

Extinguishing Media:USE CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A

FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:NONE

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Accidental Release Measures
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Spill Release Procedures:NOT RELEVANT. SOLID FILM.

Neutralizing Agent:NOT RELEVANT

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Handling and Storage
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Handling and Storage Precautions:STORE BELOW 32F. ALLOW MATERIAL TO RETURN TO ROOM TEMPERATURE BEFORE RE

USE. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:AVOID BREATHING VAPOR OR DUST. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. LAUNDER BEFORE REUSE.

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

Respiratory Protection:NOT NEEDED WITH GOOD INDUSTRIAL VENTILATION, UNLESS GRINDING, DRY SANDING OR MACHINING CURED MATERIAL. A NIOSH APPROVED RESPIRATOR OR HALF MASK DUST RESPIRATOR IS NEEDED.

Ventilation:LOCAL EXHAUST WHEN GRINDING, CUTTING OR SANDING CURED MATERIAL.

Protective Gloves:POLYVINYL ALCOHOL RECOMMENDED

Eye Protection:SAFETY GLASSES WITH SIDE SHIELD/GOGGLES

Other Protective Equipment:SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE LOCATED NEARBY. WEAR APPROPRIATE PROTECTIVE CLOTHING FOR RISK OF EXPOSURE.

Work Hygienic Practices:DO NOT EAT, DRINK OR SMOKE WHILE WORKING WITH THIS PRODUCT.

Supplemental Safety and Health
US

E WATER AS A LUBRICANT ON MACHINING TOOLS TO ELIMINATE DUST AND IMPROVE MACHINABILITY OF CURED PARTS.

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

HCC:T6

NRC/State Lic Num:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID FILM, ODORLESS.

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to A

void:HIGH HEAT.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,
OXIDES OF NITROGEN AND SULFUR.

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

Waste Disposal Methods:INCINERATE UNCURED WASTE IN AN APPROVED
INCINERATOR. DISPOSE OF COMPLETELY CURED MATERIAL IN A SANITARY
LANDFILL. OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS.

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