

MINNESOTA MINING AND MFG CO (AEROSPACE MTRL DEPT) -- SCOTCH-WELD AF-163-2
STRUCTURAL ADHESIVE FILM -- 8040-01-325-3009

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

Product ID:SCOTCH-WELD AF-163-2 STRUCTURAL ADHESIVE FILM

MSDS Date:06/14/1993

FSC:8040

NIIN:01-325-3009

MSDS Number: BTTMQ

=== 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:612-733-1341/612-733-1110

Emergency Phone Num:612-733-1341

CAGE:76381

=== Contractor Identification ===

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:DIALKYL AMINE/PHENOLIC EPOXY RESIN/HALOEPOXY RESIN

Fraction by Wt: 40-70%

Other REC Limits:NONE RECOMMENDED

Ingred Name:BISPHENOL A DIGLYCIDYL ETHER RESIN

CAS:1675-54-3

RTECS #:TX3800000

Fraction by Wt: 10-30%

Other REC Limits:NONE SPECIFIED BY M.

Ingred Name:BISPHENOL A-EPICHLOROHYDRIN COPOLYMER

CAS:25068-38-6

RTECS #:SL6475000

Fraction by Wt: 3-7%

Other REC Limits:NONE SPECIFIED BY M.

Ingred Name:GUANIDINE, CYANO-(SICYANDIAMIDE); DICYANDIAMIDE

CAS:461-58-5

RTECS #:ME9950000

Fraction by Wt: 3-7%

Other REC Limits:NONE SPECIFIED BY M.

Ingred Name:NON-VOLATILE AMIDE

Fraction by Wt: .5-1.5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:N,N'-(METHYL-1,3-PHENYLENE)BIS(N,N'-DIMETHYLUREA)
CAS:17526-94-2
Fraction by Wt: .5-1.5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:1,4-BIS(GLYCIDYOXYMETHYL)CYCLOHEXANE
CAS:14228-73-0
Fraction by Wt: 1.5%
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health

h Hazards Acute and Chronic:ACUTE-INHALATION:VAPORS OF HEATED
MATERIAL AND DUST FROM GRINDING, CUTTING OR MACHINING MAY CAUSE
IRRITATION OF RESPIRATORY TRACT. EYES:IRRITATION. SKIN:IRRITATION,
ALLERGIC REACTIONS. INGESTION:IRRITATION OF GI TRACT. CHRONIC:SKIN
SENSITIZATION.

Effects of Overexposure:SKIN: IRRITATION, REDNESS, SWELLING, ITCHING.
INHALATION: COUGHING. INGESTION:PAIN, VOMITING, NAUSEA, BLOOD IN
VOMITOUS AND FECES.

Medical Cond Aggravated by Exposure:SKIN AND
LUNG DISORDERS.

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

First Aid:INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED.
EYE CONTACT:FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL HELP. SKIN
CONTACT:WASH WITH SOAP AND WATER. GET MED ATTENTION IF SYMPTOMS
PERSIST. INGESTION:DO NOT INDUCE VOMITING, DRINK 1-2 GLASSES OF
WATER. GET MEDICAL HELP IMMEDIATELY.

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

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:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:WEAR PROTECTIVE CLOTHING, GLOVES AND SAFETY GLASSES. SCRAPE UP AND TRANSFER TO METAL CONTAINER. WIPE UP REMAINING RESIDUE WITH SOLVENTS, OBSERVING SOLVENT FLAMMABILITY CAUTIONS.

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

Handling and Storage Precautions:STORE BELOW 0F(-18C), ALLOW MATERIAL TO RETURN TO ROOM TEMPERATURE BEFORE REUSE. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:FOLLOW RECOMMENDED CURING SCHEDULE. USE IN A WELL VENTILATED AREA.

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

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

Ventilation:LOCAL EXHAUST IS RECOMMENDED.

Protective Gloves:IMPERVIOUS PLASTIC OR RUBBER.

Eye Protection:SAFETY GLASSES OR GOGGLES.

Other Protective Equipment:AS NEEDED TO PROTECT SKIN AND CLOTHING.

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

THIS PRODUCT. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID FILM, ODORLESS.

Percent Volatiles by Volume:00

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH HEAT.

Hazardous Decomposition Products:CARBON MONOXIDE, OXIDE

S OF NITROGEN,
HYDROGEN BROMIDE AND TRACE AMOUNTS OKF BROMINE.

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

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

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