

MINNESOTA MINING AND MFG CO -- INSPEX II DRY SILVER FILM,98-0439-4427-5 --  
6635-01-264-9087

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

Product ID:INSPEX II DRY SILVER FILM,98-0439-4427-5

MSDS Date:02/01/1990

FSC:6635

NIIN:01-264-9087

MSDS Number: BMGTW

=== Responsible Party ===

Company Name:MINNESOTA MINING AND MFG CO

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:POLYESTER FILM BACKING

Fraction by Wt: 80 - 90%

Other REC Limits:NONE SPECIFIED

Ingred Name:POLYVINYL BUTYRAL RESIN

CAS:63148-65

-2

Fraction by Wt: 4 - 8%

Other REC Limits:NONE SPECIFIED

Ingred Name:SILVER BEHENATE

CAS:2489-05-6

Fraction by Wt: 1 - 5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.01 MG/M3 AG (MFR)

ACGIH TLV:0.01 MG/M3 AG (MFR)

Ingred Name:CELLULOSE ACETATE

CAS:9004-35-7

Fraction by Wt: < 5%

Other REC Limits:NONE SPECIFIED

Ingred Name:ACRYLIN RESIN

Fraction by Wt: < 5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:NOT ESTABLISHED.

ACGIH TLV:NOT ESTABLISHED.

Ingred Name:2,2'-(3,5,5-TRIMETHYLHEXYLIDENE) BIS 4,6-DIMETHYLPHENOL

Fraction by Wt: < 5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:NOT ESTABLISHED.

ACGIH TLV:NOT ESTABLISHED.

Ingred Name:MERCURIC BROMIDE

CAS:7789-47-1

RTECS #:OV7415000

Fraction by Wt: < 0.1%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.1 MG/M3 HG C (MFR)

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

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

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

Health Hazards Acute and Chronic:ACUTE-EYES/SKIN/INH

HAZARD: DUST MAY CAUSE

IRRITATION & ALLERGIC SKIN REACTION. ORAL: MAY CAUSE DIGESTIVE SYSTEM IRRITATION & MERCURY EXPOSURE. CHRONIC-PROLONGED/REPEATED OVEREXPOSURE TO MERCURY CAN CAUSE KIDNEY, LIVER, LUNG, NERVOUS SYSTEM & REPRODUCTIVE SYSTEM DAMAGE & HAS BEEN ASSOCIATED WITH BIRTH DEFECTS & FETAL TOXICITY.

Effects of Overexposure: HEADACHE, TREMORS, IMPAIRED MEMORY, PSYCHOLOGICAL DISORDERS, LOSS OF APPETITE, INSOMNIA, EXCESSIVE SALIVATION, SWOLLEN GUMS, INCREASED EXCITABILITY, CHILLS, NAUSEA, SHORTNESS OF BREATH, WEAKNESS, FATIGUE, MENSTRUAL DISORDERS AND DECREASED SPERM COUNT.

Medical Condition Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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

First Aid: GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN.  
SKIN: WASH WITH SOAP & WATER. INHALED: REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL: NONE NORMALLY REQUIRED.

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

Flash Point: NONE  
Extinguishing Media: WATER, FOAM  
Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.  
Unusual Fire/Explosion Hazard: MERCURY COMPOUNDS, SILVER COMPOUNDS, CARBON MONOXIDE, CARBON DIOXIDE AND CARBON PARTICLES IF BURNED.

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

Spill Release Procedures: NONE NORMALLY REQUIRED.  
Neutralizing Agent: NOT APPLICABLE.

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

Handling and Storage Precautions: STORAGE-STORE AT ROOM TEMPERATURES. USE WITH ADEQUATE VENTILATION.  
Other Precautions: IF AIRBORNE DUST IS NOTED DURING PROCESSING, DISCONTINUE USE UNTIL MACHINE IS SERVICED AND CLEANED.

LEANED. AVOID EYE AND SKIN CONTACT WITH DUST. AVOID BREATHING VAPORS AND DUSTS. WASH THOROUGHLY AFTERWARD.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF WORKPLACE EXPOSURE LIMIT IS EXCEEDED, A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR DUST RESPIRATOR IS ADVISED.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:  
NITRILE RUBBER

Eye Protection:DUST-RESISTANT SAFETY GOGGLES

Other Protective Equipment:EYE WASH STATION, EMERGENCY SHOWER, APPROPRIATE CLOTHING

Work Hygienic Practices:DO NOT PERMIT EATING, DRINKING OR SMOKING IN WORK AREA.

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:0.1 - 1%

Appearance and Odor:WHITE, COATED PAPER, SLIGHT ODOR

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

Stability

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:FLAMES

Hazardous Decomposition Products:MERCURY COMPOUNDS, SILVER COMPOUNDS, CARBON MONOXIDE, CARBON DIOXIDE AND CARBON PARTICLES IF BURNED.

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

Waste Disposal Methods:RECLAMATION OF SILVER AND/OR PAPER IS PREFERRED, ESPECIALLY FOR LARGER QUANTITIES. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. EPA TOXICITY TEST RESULTED IN

LESS THAN 0.2 MG/L SILVER AND 1.60 MG/L OF MERCURY.

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