

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 Nu

m: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:63148-6

5-2
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/IN

HALE:DUST MAY CAUSE

IRRITATION & ALLERGIC SKIN REACTION.ORAL:MAY CAUSE DIGESTIVE SYSTEM IRRITATION & MERCURY EXPOSURE.CHRONIC-PROLONGED/REPEATED OVEREXPOSURE TO MERCURY CAN CAUSE KID NEY,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 BIRTH, WEAKNESS, FATIG UE, MENSTRUAL DISORDERS AND DECREASED SPERM COUNT.

Medical Cond 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 OP EN.SKIN:WASH WITH SOAP & WATER.INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED.ORAL:NONE NORMAL LY 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, CARB ON 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. 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 =====

Stabil

ity 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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