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MINNESOTA MINING & MFG CO ELECTRICAL PRODUCTS,(3M) -- SCOTCHCAST BRAND 4
ELECTRICAL INSULATING RESIN, PART B -- 5970-00-814-1788

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

Product ID:SCOTCHCAST BRAND 4 ELECTRICAL INSULATING RESIN, PART B

MSDS Date:03/03/1999

FSC:5970

NIIN:00-814-1788

Status Code:A

Kit Part:Y

MSDS Number: CKXKN

=== Responsible Party ===

Company Name:MINNESOTA MINING & MFG CO ELECTRICAL PRO
DUCTS,(3M)

Address:3M AUSTIN CTR

Box:2963

City:AUSTIN

State:TX

ZIP:78769-2963

Country:US

Info Phone Num:512-984-5670

Emergency Phone Num:512-984-5670

Resp. Party Other MSDS Num.:10-2577-4

CAGE:75037

=== 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

Company Name:MINNESOTA MINING AND MFG CO ELECTRICAL PRODUCTS DIV

Address:3M AUSTIN C

TR

Box:City:AUSTIN

State:TX

ZIP:78769-2963

Country:US

Phone:512-984-1800

CAGE:75037

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

Ingred Name:NONYLPHENOL

CAS:25154-52-3

RTECS #:SM5600000

Minumum % Wt:35.

Maxumum % Wt:45.

Other REC Limits:NONE RECOMMENDED

Ingred Name:AMINE/FATTY ACID ADDUCT

CAS:68919-79-9

Minumum % Wt:15.

Maxumum % Wt:20.

Other REC Limits:NONE RECOMMENDED

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Minumum % Wt:13.
Maxumum % Wt:15.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:300 PPM
ACGIH TLV:300 PPM

Ingred Name:N-AMINOETHYLPIPERAZINE
CAS:140-31-8
RTECS #:TK8050000
Minumum % Wt:10.
Maxumum % Wt:13.
Other REC Limits:NONE RECOMMENDED

Ingred Name:AMINE/EPOXY RESIN ADDUCT
CAS:70776-37-3
Minumum % Wt:10.
Maxumum % Wt:15.
Other REC Limits:NONE RECOMMENDED

Ingred Name:AROMATIC HYDROCARBONS, C12-20
CAS:70955-17-8
Minumum % Wt:3.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED

Ingred Name:2,
4,6-TRIS(DIMETHYLAMINO METHYL) PHENOL
CAS:90-72-2
RTECS #:SN3500000
Minumum % Wt:2.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED

Ingred Name:CARBON BLACK
CAS:1333-86-4
RTECS #:FF5800000
Minumum % Wt:1.
Maxumum % Wt:3.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:3.5 MG/M3
ACGIH TLV:3.5 MG/M3; 9596

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinog

enicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:EYE CONTACT: CHEMICAL RELATED EYE BURNS (CHEMICAL CORROSIVITY). SKIN CONTACT: ALLERGIC SKIN REACTION. SKIN BURNS. MAY BE ABSORBED THROUGH THE SKIN AND PRODUCE EFFECTS SIMILAR TO THOSE CAUSED BY INHALATION AND/OR INGESTION. INHALATION: ALLERGIC RESPIRATORY REACTION. IRRITATION (UPPER RESPIRATORY). IF SWALLOWED: IRRITATION OF GASTROINTESTINAL TISSUES. BURNS OF THE ORAL TISSUES.

Explanation of Carcinogenic

ity:CONTAINS A CHEMICAL WHICH CAN CAUSE CANCER (CAS# 64742-1-6) (IARC HUMAN CACINOGEN 1 FOR UNTREATED AND MILDY TREATED AND IARC NOT CLASSIFIABLE AS TO CARCINOGENICITY TO HUMANS 3).

Effects of Overexposure:EYES:CLOUDY APPEARANCE OF THE CORNEA,CHEMICAL BURNS,PAIN,TEARING,ULCERS,IMPAIRED VISION OR LOSS OF VISION.ALLERGIC SKIN REACTION:REDNESS,SWELLING,BLISTERING,ITCHING.SKIN BURNS:REDNESS,SWELLING,BLISTERING,ULCERATION,SLOUGHING,SCAR FORMATION.INHALATION: ALLERGIC RESPIRATORY REACTION:DIFFICULTY BREATHING,WHEEZING,TIGHTNESS OF CHEST, RESPIRATORY FAILURE.IRRITATION (UPPER RESPIRATORY):SORENESS OF NOSE & THROAT,COUGHING & SNEEZING.SWALLOWED:IRRITATION OF GI TISSUES:PAIN,VOMITING,ABDOMINAL TENDERNESS,NAUSEA,BLOOD IN VOMITUS,BLOOD IN FECES.BURNS TO ORAL TISSUE:PAIN,BURNS OF TONGUE & INSIDES OF MOUTH,REDNESS, TISSUE LOSS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures
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First Aid:EYE CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN CONTACT: IMMEDIATELY FLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES IN A CHEMICAL SAFETY SHOWER WHILE REMOVING CONTAMINATED CLOTHES & SHOES. GET IMMEDIATE MEDICAL ATTENTION. INHALATION: IF SIGNS/SYMPTOMS OCCUR, REMOVE PERSON FRESH AIR. IF SIGNS/SYMPTOMS OCCUR, CALL A PHYSICIAN. IF SWALLOWED: DO NOT INDUCE VOMITING !
GIVE VICTIM 2 GLASSES WATER. CALL PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point Method:CC

Flash Point:>110.C, 230.F

Autoignition Temp:Autoignition Temp Text:ND

Lower Limits:ND

Upper Limits:ND

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING INCLUDING HELMET, SELF-CONTAINED POSITIVE PRESSURE OR PRESSURE DEMAN

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BREATHING APPARATUS, BUNKER COAT, PANTS, BANDS AROUND ARMS, WAIST AND LEGS, FACE MASK, AND PROTECTIV E COVERING FOR EXPOSED AREAS OF HEAD.

Unusual Fire/Explosion Hazard:NO UNUSUAL FIRE OR EXPLOSION HAZARDS ARE ANTICIPATED. OSHA FIRE HAZARD CLASS IIIB COMBUSTIBLE LIQUID.

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

Spill Release Procedures:OBSERVE PRECAUTIONS FROM OTHER SECTIONS. COVER WITH ABSORBENT MATERIAL. COLLECT SPILLED MATERIAL. PLACE IN AN

APPROVED METAL CONTAINER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FROM ACIDS. STORE AWAY FROM HEAT. KEEP OUT OF REACH OF CHILREN. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME AND OTHER IGNITION SOURCES.

Other Precautions:PREVENT ALL SOURCES OF IGNITION. COMBUSTIBLE LIQUID AND VAPOR. NO SMOKING WHILE HANDLING THIS MATERIAL.

===== Exposure Controls/Persona
l Protection =====

Respiratory Protection:AVOID PROLONGED BREATHING OF VAPORS.

Ventilation:PROVIDE SUFFICIENT VENTILATION TO MAINTAIN EMISSIONS BELOW RECOMMENDED EXPOSURE LIMITS.

Protective Gloves:APPROPRIATE GLOVES

Eye Protection:VENTED GOGGLES, SAFETY GLASSES WITH SIDE SHIELDS

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH CONTAMINATED CLOTH BEFORE REUSE.WASH HANDS AFTER HANDLING, BEFORE EATING. AVOID EYE/SKIN CONTACT.

Supplemental Saf
ety and Health

DLA-HMIS NOTE: PART B OF A TWO PART KIT. PART A IS DOD-HMIS SERIAL NUMBER CKXKM.

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

HCC:V5

Melt/Freeze Pt:M.P/F.P Text:N/D

Vapor Density:NA

Spec Gravity:0.98

pH:NA

Viscosity:3500 CPS

Solubility in Water:NIL

Appearance and Odor:BLACK LIQUID, AMINE ODOR

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decompo

sition Products:ALDEHYDES, HYDROCARBONS, IRRITATING
VAPORS & GASES.OXIDES OF NITROGEN, CARBON MONOXIDE, CARBON DIOXIDE.
OTHER SUBSTANCES THAT COULD BE GENERATED ARE ALKYLATED PHENOLS,
BENZENE, ALKYLATED AMINES, CRESOLS
Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:NO DATA PROVIDED BY MANUFACTURER

===== Ecological Information =====

Ecological:NO DATA
AVAILABLE.

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

Waste Disposal Methods:CURE PRODUCT ACCORDING TO PRODUCT INSTRUCTIONS.
INCINERATE UNCURED WASTE IN AN INDUSTRIAL OR COMMERCIAL
INCINERATOR. DISPOSE OF COMPLETELY CURED (OR POLYMERIZED) MATERIAL
IN A SANITARY LANDFILL.

===== MSDS Transport Information =====

Transport Information:NO DATA PROVIDED BY MANUFACTURER.

===== Regulatory Information =====
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SARA Title III Information:EPCRA HAZARD CLASS: FIRE HAZARD: NO,
PRESSURE: NO, REACTIVITY: NO, ACUTE: YES, CHRONIC: YES.
Federal Regulatory Information:SINCE REGULATIONS VARY, CONSULT
APPLICABLEE REGULATIONS OR AUTHORITIES BEFORE DISPOSAL. U.S. EPA
HAZARDOUS WASTE NUMBER: NONE (NOT US EPA HAZARDOUS). VOLATILE
ORGANIC COMPOUNDS: N/D. VOC LESS H2O & EX EMPT SOLVENTS: N/D. NOTE:
THIS MATERIAL CONTAINS ONE OR MORE SUBSTANCES NOT LISTED ON THE
TSCA INVENTORY AND IS MAN
UFACTURED FOR EXPORT ONLY. WITHIN THE
UNITED STATES, IT MAY ONLY BE USED FOR R&D PURP OSES. ALL
INGRDIENTS LISTED ON TSCA, AICS, AND DSL INVENTORIES.
State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

===== Other Information =====

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