

MINNESOTA MINING & MFG CO ELECTRICAL PRODUCTS,(3M) -- SCOTCHCAST BRAND FLAME  
RETARDANT COMPOUND 2 -- 5970-01-182-5866

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

Product ID:SCOTCHCAST BRAND FLAME RETARDANT COMPOUND 2

MSDS Date:10/23/1989

FSC:5970

NIIN:01-182-5866

Kit Part:Y

MSDS Number: BPKYQ

=== Responsible Party ===

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

Address:3M AUSTIN CTR

Box

:2963

City:AUSTIN

State:TX

ZIP:78769-2963

Country:US

Info Phone Num:612-733-1110

Emergency Phone Num:612-733-1110

CAGE:75037

=== Contractor Identification ===

Company Name:MINNESOTA MINING AND MFG CO ELECTRICAL PRODUCTS DIV

Address:3M AUSTIN CTR

Box:City:AUSTIN

State:TX

ZIP:78769-2963

Country:US

Phone:512-984-1800

CAGE:75037

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

Ingred Name:DIPHENYLMETHANE DIISOCYANATE (MDI)

CAS:26447-40-5

Fraction by Wt: 54-57%

Other REC Limits:

0.005 PPM TWA

Ingred Name:STYRENE-BUTADIENE COPOLYMER  
CAS:9003-17-2  
Fraction by Wt: 20-23%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:DIUNDECYL PHTHALATE  
CAS:3648-20-2  
RTECS #:TI1980000  
Fraction by Wt: 11-14%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYOXYPROPYLENE GLYCOL  
CAS:25322-69-4  
RTECS #:TR5250000  
Fraction by Wt: 6-9%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLVOL: STYRENE-BUTADIENE COPOLYMER  
CAS:9003-17-2  
Fraction by Wt: 24-27%  
Other REC Limits:NONE RECOMMENDED

Ingred  
Name:DECABROMODIPHENYL OXIDE (SARA III)  
CAS:1163-19-5  
RTECS #:KN3525000  
Fraction by Wt: 20-25%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:DIUNDECYL PHTHALATE  
CAS:3648-20-2  
RTECS #:TI1980000  
Fraction by Wt: 11-14%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYOXYPROPYLENE GLYCOL  
CAS:25322-69-4  
RTECS #:TR5250000  
Fraction by Wt: 8-10%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:ANTIMONY TRIOXIDE (SARA III)  
CAS:1309-64-4  
RTECS #:CC5650000  
Fraction by Wt: 7-9%  
Other REC Limits:NONE REC

RECOMMENDED  
OSHA PEL:0.5 MG/M3 (SB)  
ACGIH TLV:0.5 MG SB/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingredient Name:ZEOLITES  
CAS:1318-02-1  
Fraction by Wt: 7-9%  
Other REC Limits:NONE RECOMMENDED

Ingredient Name:N,N BIS-(2-HYDROXYPROPYL)-ANILINE  
CAS:3077-13-2  
Fraction by Wt: 5-8%  
Other REC Limits:NONE RECOMMENDED

Ingredient Name:DIPROPYLENE GLYCOL  
CAS:110-98-5  
RTECS #:UB8785000  
Fraction by Wt: 3-5%  
Other REC Limits:NONE RECOMMENDED

Ingredient Name:CARBON BLACK  
CAS:1333-86-4  
RTECS #:FF5800000  
Fraction by Wt: 1-2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:3.5 MG/M3  
ACGIH TLV:3.5 MG/M3; 9293

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

LD50 LC50 Mixture:LD50 RAT (ORAL)- POLYOL=>5000 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:EYE CONTACT: MAY IRRITATE EYES. SKIN  
CONTACT: MAY CAUSE SKIN SENSITIZATION AND IRRITATION. INHALATION:  
NOT EXPECTED TO BE SIGNIFICANT DURING NORMAL USE. ELEVATED  
CONCENTRATIONS OF VAPOR  
MAY CAUSE SENSITIZATION OF RESPIRATORY  
SYSTEM. THERE IS EVIDENCE THAT BENZENE EXTRACTS OF MOST CARBON  
BLACKS ARE CARCINOGENIC.  
Explanation of Carcinogenicity:IARC STATES THE AVAILABLE DATA ON CARBON  
BLACKS ARE INADEQUATE TO EVALUATE CARCINOGENICITY TO EXPERIMENTAL  
ANIMALS  
Effects of Overexposure:EYE: SEVERE IRRITATION. SKIN:IRRITATION,  
DERMATITIS, SENSITIZED DERMATITIS. INHALATION: EXPOSURE AT AMBIENT  
TEMPERATURES IS NOT EXPECTED TO BE SIGNIFICANT. RESPIRATORY  
IRRITATION

TION, SENSITIZING RESULTIN G IN ASTHMA UPON RESULTING EXPOSURES. INGESTED: PRACTICALLY NON- TOXIC IF INGESTED. Medical Cond Aggravated by Exposure:INHALATION OF ELEVATED CONCENTRATION OF VAPORS MAY CAUSE SENSITIZATION OF RESPIRATORY SYSTEM IN SUSCEPTIBLE INDIVIDUALS AND ON SUBSEQUENT EXPOSURE MAY RESULT IN ASTHMA-LIKE SYMPTOMS.

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

First Aid:EYE: FLUSH EYES WITH PLENTY OF WATER. CALL A PHYSICIAN. SKIN: WASH WITH SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. IF COUGHING, WHEEZING OR SHORTNESS OF BREATH OCCUR, CALL A PHYSICIAN. INGESTION: GIVE ONE OR TWO GLASSES OF WATER. CALL A PHYSICIAN.

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

Flash Point Method:CC  
Flash Point:>290F,>143C  
Extinguishing Media:CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.  
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:DURING FIRE, VAPORS ARE IRRITATING AND HIGHLY TOXIC

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

Spill Release Procedures:PREPOLYMER: WEAR AN ORGANIC VAPORMASK. POUR DECONTAMINATE (8% CONC. AMMONIA, 2% LIQUID DETERGENT, 90% WATER) OVER SPILL AND REACT 10 MINUTES. IF THESE REAGENTS NOT AVAILABLE, USE WATER AND ALLOW LONGER TIME. POUR ADSORBENT OVER NEUTRALIZED SPILL.  
Neutralizing Agent:8% CONC. AMMONIA, 2% LIQUID DETERGENT, 90% WATER

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

Handling and Storage Precautions:AVOID EYE CONTACT. AVOID PROLONGED OR REPEATED SKIN CONTACT. AVOID BREATHING VAPORS FROM MATERIAL AT ELEVATED TEMPERATURE. STORE IN A DRY AREA.  
Other Precautions:NONE

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

Respiratory Protection:AVOID BREATHING VAPORS FROM MATERIAL AT ELEVATED TEMPERATURES.  
Ventilation:LOCAL EXHAUST RECOMMENDED DURING CURING.  
Protect

ive Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES

Other Protective Equipment:NONE

Work Hygienic Practices:AVOID PROLONGED OR REPEATED SKIN CONTACT.

Supplemental Safety and Health

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE 111 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372: DE CABROMODIPHENYLOXIDE, ANTIMONY TRIOXIDE.

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

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HCC:N1

Spec Gravity:1.29

Solubility in Water:REACTS

Appearance and Odor:PREPOLYMER: HAZY, AMBER LIQUID. POLYOL: BLACK VISCOUS LIQUID.

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

Stability Indicator/Materials to Avoid:YES

PREPOLYMER: REACTS NON-VIOLENTLY WITH WATER, ALCOHOL AND AMINES.

Stability Condition to Avoid:NONE STATED BY THE MANUFACTURER.

Hazardous Decomposition Products:CARBON MONOXIDE, TRACES ON HYDROGEN CYANIDE, OXIDES OF NITROGEN, DIPHENYLMETHANE DIISOCYANATE.

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

Waste Disposal Methods:ALLOW DRUM TO SET 24 HOURS WITH EXCESS DECONTAMINANT BEFORE SEALING. PREPOLYMER OR POLYOL: SHOULD BE BURIED IN A SECURE LANDFILL OR INCINERATED IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

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