MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS -- FC-206CF, LIGHT WATER BRAND AQUEOUS FILM FORMING FOAM -- 4210-01-056-0883

Product ID:FC-206CF, LIGHT WATER BRAND AQUEOUS FILM FORMING FOAM MSDS Date:08/22/1996 FSC:4210 NIIN:01-056-0883 **MSDS Number: CCHXQ** === Responsible Party === Company Name: MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS Address:3M CTR City:ST PAUL State:MN ZIP:55144 Country:US Info Phone Num:612-733 -5454 Emergency Phone Num:612-733-5454 CAGE:28112 === Contractor Identification === Company Name: MINNESOTA MINING AND MFG CO PERFOMANCE CHEM AND FLUIDS DIV Address:3M CTR Box:City:SAINT PAUL State:MN ZIP:55144-1000 Country:US Phone:800-364-3577/651-737-6501 CAGE:28112

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 78-81% Other REC Limits:NONE SPECIFIED

Ingred Name: DIETHYLENE GLYCOL MONOBUTYL ETHER CAS:112-

34-5 RTECS #:KJ9100000 Fraction by Wt: 10% Other REC Limits:NONE SPECIFIED

Ingred Name:FLUOROALKYLAMIDE DERIVATIVE Fraction by Wt: 1 - 2% Other REC Limits:NONE SPECIFIED

Ingred Name:ALKYL SULFATE SALTS Fraction by Wt: 1 - 5% Other REC Limits:NONE SPECIFIED

Ingred Name:1H-BENZOTRIAZOLE,METHYL-CAS:29385-43-1 RTECS #:DM1300000 Fraction by Wt: 0 - 0.1% Other REC Limits:NONE SPECIFIED

Ingred Name:UREA CAS:57-13-6 RTECS #:YR6250000 Fraction by Wt: 3 - 7% Other REC Limits:NONE SPECIFIED

Ingred Na me:PERFLUOROAKYL SULFONATE SALTS Fraction by Wt: 0.1 - 1% Other REC Limits:NONE RECOMMENDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:MODERATE EYE IRRITATION. MILD SKIN IRRITATION. SKIN MAY ABSORB HARMFUL AMOUNTS. SINGLE OVEREXPOSURE, MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION & IRRITATION (UPPER RESPIRATORY), BLOO

D DISORDERS, BONE MARROW DEPRESSION, KIDNEY EFFECTS, LIVER EFFECTS, PULMONARY EDEMA. INGESTION IS NOT A LIKELY ROUTE EXPOSURE.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:EYE:REDNESS, SWELLING, PAIN, TEARING & HAZY VISION. SKIN:REDNESS, SWELLING, & ITCHING. INHALATION:HEADACHE, DIZZINESS, DROWSINESS, INCOORDINATION, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS & UNC ONSCIOUSNESS. SORENESS OF THE NOSE & THROAT, COUGHING AND SNEEZING.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN:FLUSH SKIN WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, GET IMMEDIATE MEDICAL ATTENTION. INHALATION:REMOV E PERSON TO FRESH AIR. IF SYMPTOMS CONTINUE, CALL A PHYSICIAN. INGESTION:DRINK TWO GLASSES OF WATER. CALL A PHYSICIAN IMMEDIATELY.

Flash Point Method:SCC Flash Point:NONE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN Extinguishing Media:PRODUCT IS A FIRE EXTINGUISHING AGENT. Unusual Fire/Explosion Hazard:SEE HAZARDOUS DECOMPOSITION PRODUCTS SECTION FOR PRODUCTS OF COMBUSTION.

Sp

ill Release Procedures:OBSERVE PRECAUTIONS FROM OTHER SECTIONS. COVER WITH ABSORBENT MATERIAL. COLLECT SPILLED MATERIAL. CLEANUP RESIDUE WITH WATER. PLACE IN APPROVED METAL CONTAINER. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN A COOL PLACE. STORE AWAY FROM HEAT. STORE OUT OF DIRECT SUNLIGHT. KEEP CONTAINER DRY. KEEP CONTAINER IN WELL- VENTILATED AREA. Other Prec

autions: KEEP CONTAINER TIGHTLY CLOSED.

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

Respiratory Protection: AVOID BREATHING OF VAPORS, MISTS OR SPRAY. SELECT ONE OF THE FOLLOWING NIOSH APPROVED RESPIRATORS BASED ON AIRBORNE CONCENTRATION OF CONTAMINANTS & I/A/W OSHA REGULATIONS: HALF MASK ORGANIC VAPOR RESP IRATOR WITH DUST/MIST PREFILTER. Ventilation: USE WITH ADEQUATE DILUTION VENTILATION. Protective Gloves: BUTYL RUBBER GLOVES RECOMMENDED. Eye Protection: WEAR VENTED GOGGLES. Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER. Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health NONE SPECIFIED BY MANUFACTURER.

HCC:N1 NRC/State Lic Num:NONE Boiling Pt:=100.C, 212.F Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Vapor Pres:17.8 Vapor Density:0.62 Spec Gravity:1 VOC Pounds/Gallo n:103 pH:8.50 Evaporation Rate & amp; Reference:< 1 (BUTYL ACETATE = 1) Solubility in Water:MISCIBLE Appearance and Odor:CLEAR, AMBER COLORED LIQUID Percent Volatiles by Volume:90

Stability Indicator/Materials to Avoid:YES
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, OXIDES OF SULFUR, HYDROGEB CYANIDE, HYDROGEN FLUORIDE
, AMMONIA.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

Waste Disposal Methods: SLOWLY DISCHARGE SPENT SOL & SMALL AMOUNTS (