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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:04/14/1995

FSC:4210

NIIN:01-056-0883

MSDS Number: BVHGS === 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

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

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 +-.5%

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

(TRIETHANOLAMINE) CAS:102-71-6 RTECS #:KL9275000

Fraction by Wt: 0.1-1.0%

Other REC Limits: NONE SPECIFIED

ACGIH TLV:5 MG/M3

Ingred Name:UREA

CAS:57-13-6

RTECS #:YR6250000 Fraction by Wt: 3 - 7%

Other REC Limits: NONE SPECIFIED

Ingred Name: 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), BLOOD DISORDERS, BONE MARROW DEPRESSION, KIDNEY EFFECTS, LIVER EFFECTS, PULMONARY EDEMA. INGESTION IS NOT A LIKELY ROUTE EXPOSURE.

Explanation of Carcinogenicity:MANUFACTURER GAVE NO INFORMATION ABOUT CARCINOGENICITY. HMIS FOUND NO LISTING & DOES NOT EXP ECT IT TO BE

CARCINOGENIC.

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: GET IMMEDIATE MEDICAL ATTENTION.

First Aid:EYES:IMMED

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.
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Flash Point Method:SCC Flash Point:NONE Extinguishing Media:PRODUCT IS A FIRE EXTINGUIS HING AGENT.
Unusual Fire/Explosion Hazard:SEE HAZARDOUS DECOMPOSITION PRODUCTS SECTION FOR PRODUCTS OF COMBUSTION.
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Spill 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:MFR GAVE NO INFORMATION ON MSDS.
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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 Precautions: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 REGULATION S:
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:MFR GAVE NO INFORMATION ON MSDS. Work Hygienic Practices:MFR:?. HMIS:USE GOOD CHEMICAL HYGIENE PRACTICES. AVOID CONTACT IF AT ALL POSSIBLE. WASH THOROUGHLY AFTER HANDLING.
Supplemental Safety and Health NONE
========== Physical/Chemical Properties

GET MEDICAL ATTENTION. SKIN:FLUSH SKIN WITH LARGE AMOUNTS OF WATER.

IATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES.

\_\_\_\_\_ HCC:N1 NRC/State Lic Num:NONE Boiling Pt:B.P. Text:212F,100C Vapor Pres:30.400 MM Vapor Density:0.62 Spec Gravity:1 pH:8.50 Evaporation Rate & Reference: < 1 (BUTYL ACETATE = 1) Solubility in Water:MISCIBLE Appearance and Odor: CLEAR, AMBER COLORED LIQUID Percent Volatiles by Volume:90 ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER. Hazardous Decom position Products: CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, OXIDES OF SULFUR, HYDROGEB CYANIDE, HYDROGEN FLUORIDE, AMMONIA.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

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