

MINNESOTA MINING/SPECIALTY CHEMICALS DIV -- FC-203CF LIGHT WATER BRAND AQUEOUS  
FILM FORMING FOAM -- 4210-01-139-4972

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

Product ID:FC-203CF LIGHT WATER BRAND AQUEOUS FILM FORMING FOAM

MSDS Date:11/13/1995

FSC:4210

NIIN:01-139-4972

MSDS Number: CCGKL

=== Responsible Party ===

Company Name:MINNESOTA MINING/SPECIALTY CHEMICALS DIV

Address:3M CTR

City:ST PAUL

State:MN

ZIP:55144-1000

Country:US

Info Phone Num:612-733-1110

Emergency Phone Num:612-733-1110

CAGE:28112

=== Contractor Identification ===

Company Name:MINNESOTA MINING AND MFG CO PERFORMANCE 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: 69-71%

Ingred Name:2-(2-BUTOXYETHYOXY)-ETHANO

L, DIETHYLENE GLYCOL MONOBUTYL

ETHER (BUTYL CARBITOL) \*96-2\*

CAS:112-34-5

RTECS #:KJ9100000

Fraction by Wt: 19-21%

Ingred Name:SODIUM ALKYL SULFATE

Fraction by Wt: 4-6%

Ingred Name:AMPHOTERIC FLUOROALKYLAMIDE DERIVATIVE

Fraction by Wt: 1-5%

Ingred Name:TRIETHANOLAMINE \*96-2\*

CAS:102-71-6

RTECS #:KL9275000

Fraction by Wt: 0.5-1.5%

Other REC Limits:A2 CARCINOGEN

ACGIH TLV:3.1 MG/CUM IC

Ingred Name:PERFLUOROALKYL SULFONATE SALTS

YL (TTA) \*96-2\*  
CAS:29385-43-1  
RTECS #:DM1300000  
Fraction by Wt: 0-0.1%  
ACGIH TLV:NONE

Ingred Name:VOLATILE ORGANIC CONTENT: 200 GM/L  
RTECS #:9999999VO

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES: IRRITATION. SKIN: IRRITATION,  
MAY BE ABSORBED IN HARMFUL AMOUNTS. INHALATION: CNS DEPRESSION,  
UPPER RESPIRATORY IRRITA  
TION. PROLONGED/REPEATED EXPOSURE MAY CAUSE  
BLOOD DISORDERS, BONE MARROW DEP RESSION, KIDNEY & LIVER EFFECTS,  
PULMONARY EDEMA. EMA.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IRRITATION, REDNESS, SWELLING, PAIN, TEARING,  
HAZY VISION, ITCHING, DRYNESS, HEADACHE, DIZZINESS, DROWSINESS,  
INCOORDINATION, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS,  
UNCONSCIOUSNESS, SORE NOS E & THROAT, COUGH, SNEEZING.  
OVEREXPOSURE: WEAKNESS, FATIGUE, REDUCED URINE, BLOO  
D IN URINE,  
BACK PAIN (SEE SUPP)

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

First Aid:EYES/SKIN: FLUSH W/WATER FOR 15 MINS. INHALATION: REMOVE TO  
FRESH AIR. INGESTION: DRINK 2 GLASSES OF WATER. OBTAIN MEDICAL  
ATTENTION IN ALL CASES.

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

Flash Point Method:SCC  
Flash Point:NONE  
Extinguishing Media:PRODUCT IS A FIRE EXTINGUISHING AGENT.

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

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Spill Release Procedures:VENTILATE AREA. CONTAIN. COVER W/ABSORBENT MATERIAL. COLLECT & CLEAN UP RESIDUE W/WATER. PLACE IN AN APPROVED METAL CONTAINER & SEAL.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT. KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions:AVOID EYE, SKIN CONTACT & BREATHING OF VAPORS, MISTS/SPRAY.

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

Respiratory Protection:WEAR NIOSH/MSHA APPROVED RESPIRATORS/HALF-MASK ORGANIC VAPOR RESPIRATOR W/DUST/MIST PREFILTER.

Ventilation:ADEQUATE DILUTION VENTILATION.

Protective Gloves:BUTYL RUBBER

Eye Protection:VENTED GOGGLES

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING & BEFORE EATING.

Supplemental Safety and Health

SYMPTOMS CONT'D: JAUNDICE, TENDERNESS OF UPPER ABDOMEN, COUGH, CONGESTION, BREATHING DIFFICULTY, RESPIRATORY FAILURE, DETH.

DISPOSAL CONT'D: COMBUSTION PRODUCTS WILL INCLUDE HYDROGEN

FLUORIDE. DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

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

Boiling Pt:B.P. Text:212F

Vapor Pres:17

Vapor Density:0.77

Spec Gravity:1

pH:8.5

Evaporation Rate & Reference:(BU AC =1):