

MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS -- FC-203CF LIGHT WATER BRAND
AQUEOUS FILM FORMING FOAM -- 4210-01-139-4972

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

MSDS Date:05/31/1993

FSC:4210

NIIN:01-139-4972

MSDS Number: BVQCN

=== Responsible Party ===

Company Name:MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS

Address:3M CTR

Ci

ty:ST PAUL

State:MN

ZIP:55144

Country:US

Info Phone Num:612-733-1000

Emergency Phone Num:612-733-5454

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

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Composition/Information on Ingredients
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Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 69-71%

Other REC Limits:NONE RE

COMMENDED

Ingred Name:DIETHYLENE GLYCOL MONOBUTYL ETHER

CAS:112-34-5

RTECS #:KJ9100000

Fraction by Wt: 19-21%

Other REC Limits:NONE RECOMMENDED

Ingred Name:TRADE SECRET COMPONENT, ALKYL SULFATE SALT

Fraction by Wt: 4-6%

Other REC Limits:NONE RECOMMENDED

Ingred Name:TRADE SECRET COMPONENT-AMPHOTERIC FLUOROALKYLAMIDE
DERIVATIVE

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

Ingred Name:TRIETHANOLAMINE

CAS:102-71-6

RTECS #:KL9275000

RECOMMENDED
ACGIH TLV:5 MG/M3; 9394

Ingredient Name:TRADE SECRET COMPONENT-PERFLUOROALKYL SULFONATE SALT
Fraction by Wt: 0.5-1.5%
Other REC Limits:NONE RECOMMENDED

Ingredient Name:1H-BENZOTRIAZOLE,METHYL-
CAS:29385-43-1
Fraction by Wt: 0-0.1%
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE-MODERATE EYE IRRITATION. SKIN-MILD

SKIN IRRITATION. INHALATION-SINGLE OVEREXPOSURE, ABOVE RECOMMENDED GUIDELINES, MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION & IRRITATION (UPPER RESPIRATORY), BLOOD DISORDERS, BONE MARROW DEPRESSION, KIDNEY EFFECTS, LIVER EFFECTS, PULMONARY EDEMA. SWALLOWED-NO LIKELY ROUTE EXPOSURE.

Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.

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 & UNCONSCIOUSNESS. SORENESS OF THE NOSE & THROAT, COUGHING AND SNEEZING.

Medical Condition Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

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

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

Flash Point Method:SCC
Flash Point:NONE
Extinguishing Media:PRODUCT IS A FIRE EXTINGUISHING AGENT.
Unusual Fire/Explosion Hazard:SEE HAZARDOUS DECOMPOSITION PRODUCTS SECTION FOR PRODUCTS OF COMBUSTION.

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Accidental Release Measures =====

Spill Release Procedures:OBSERVE PRECAUTIONS FROM OTHER SECTION. COVER WITH ABSORBENT MATERIAL. COLLECT SPILLED MATERIAL. CLEANUP RESIDUE WITH WATER. PLACE IN U. S. DOT APPROVED CONTAINER AND SEAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

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: HALF MASK ORGANIC VAPOR RESPIRATOR WITH DUST.MIST PRE FILTER.

Ventilation:USE WITH ADEQUATE DDILUTION VENTILATION.

Protective Gloves:BUTYL RUBBER GLOVES RECOMMENDED.

Eye Protection:WEAR VENTED GOGGLES.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH EXPOSED AREAS THOROUGHLY WITH SOAP & WATER. WASH HANDS AFTER HANDLING & BEFORE EATING.

Supplemental Safety and Health
NONE

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

HCC:B3

Boiling Pt:B.P. Text:212F,100C

Vapor Pres:29.3

Vapor Density:0.62

Spec Gravity:1

pH:8.50

Evaporation Rate & Reference:< 1 (BUTYL ACETATE = 1)

Solubi

lity 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 Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,
OXIDES OF NITROGEN, OXIDES OF SULFUR, HYDROGEN FLUORIDE.

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

Waste Disposal Methods:BL

EED SPENY SOLUTION & SMALL PRODUCT QUANTITIES

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