

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:02/19/1997

FSC:4210

NIIN:01-139-4972

MSDS Number: CGMJH

=== Responsible Party ===

Company Name:MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS

Address:3M CTR

Ci

ty:SAINT 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, DBA 3M

Address:3M CENTER BLDG 224-5S-04

Box:City:SAINT PAUL

State:MN

ZIP:55144-1000

Country:US

Phone:866-556 5712 / 612-733-1110

CAGE:76381

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:800-364-3577/651-73

7-6501

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 RECOMMENDED

Ingred Name:DIETHYLENE GLYCOL MONOBUTYL ETHER

CAS:112-34-5

RTECS #:KJ9100000

Fraction by Wt: 20%

Other REC Limits:NONE RECOMMENDED

Ingred Name:AMPHOTERIC FLUOROALKYLAMIDE NEW JERSEY TRADE SECRET 5803P

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

Ingred Name:ETHANOL, 2,2',2"-NITRILOTRI-; (TRIETHANOLAMINE)

CAS:102-71-6

RTECS #:KL9275000

Fraction by Wt: .5-1.5%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:5 MG/M3

Ingred Name:FLUOROALKYL SURFACTANTS

Fraction by Wt: .5-1.5%

Other REC Limits:NONE RECOMMENDED

Ingred Name:1H-BENZOTRIAZOLE,METHYL-

CAS:29385-43-1

RTECS #:DM1300000

Fraction by Wt: 0.05%

Other REC Limits:NONE RECOMMENDED

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

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LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE CONTACT CAUSES MODERATE EYE

IRRITATION. PROLONGED OR REPEATED SKIN CONTACT CAUSES MODERATE SKIN

IRRITATION. MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS.

INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, UPPER

RESPIRATORY TRACT IRRITATION. CHRONIC INHALATION MAY CAUSE

BLOOD

DISORDERS, KIDNEY/LIVER EFFECTS

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/DRYNESS, HEADACHE, DIZZINESS, DROWSINESS, INCOORDINATION, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS, UNCONSCIOUSNESS , SORENESS OF NOSE/THROAT, COUGHING, SNEEZING.

Medical Cond A

aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DRINK TWO GLASSES OF WATER. CALL A PHYSICIAN.

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

Flash Point Method:SCC
Flash Point:NONFLAMMABLE
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:PRODUCT IS A FIRE-EXTINGUISHING AGENT.
Fire Fighting Procedures:NONFLAMMABLE. USE STANDARD FIREFIGHTING PROCEDURES FOR SURROUNDING MATERIALS IN THE FIRE.
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:VENTILATED AREA
. CONTAIN SPILL. COVER WITH
ABSORBENT MATERIAL. CLEAN UP RESIDUE WITH WATER. PLACE IN AN APPROVED CONTAINER. SEAL THE CONTAINER.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT. KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. AVOID BREATHING VAPORS, MISTS, SPRAY.
Other Precautions:USE WITH ADEQUATE DILUTION VENTILATION.

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

Respiratory Protection:SELECT ONE OF THE FOLLOWING NIOSH APPROVED RESPIRATORS BASED ON AIRBORNE CONCENTRATION OF CONTAMINANTS AND IN ACCORDANCE WITH OSHA REGULATIONS: HALF-MASK ORGANIC VAPOR RESPIRATOR WITH DUST/MIST PREFILTER.
Ventilation:ADEQUATE DILUTION VENTILATION.
Protective Gloves:BUTYL RUBBER
Eye Protection:VENTED GOGGLES
Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO
PR

EVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

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.

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

HCC:B3

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

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:17.4

Vapor Density:< 1

Spec Gravity:1.0

pH:8.5

Evaporation Rate & R

ference:< 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

NONE SPECIFIED BY MANUFACTURER.

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:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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