

MINNESOTA MINING AND MFG CO -- FC-203CF LIGHT WATER BRAND AQUEOUS FILM FORMING FOAM -- 4210-01-144-0291

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

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

MSDS Date:08/22/1996

FSC:4210

NIIN:01-144-0291

MSDS Number: CCKBY

=== Responsible Party ===

Company Name:MINNESOTA MINING AND MFG CO

Address:3M CTR

City:SAINT PAUL (FORMALLY IN DETROITT, MI)

Stat

e:MN

ZIP:55144-1000

Country:US

Info Phone Num:612-733-1110

Emergency Phone Num:612-733-1100

CAGE:76381

=== 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

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

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 DERIVATIVE (5803P) -TRADE
SECRET

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

ingred Name:ALKYL SULFATE SALTS (2) (5805P) (5806P) - TRADE SECRET

RTECS #:NE9983982

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

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

CAS:102-71-6

RTECS #:KL9275000

Frac

tion by Wt: 0.5-1.5%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:5 MG/M3

ingred Name:PERFLUOROALKYL SULFONATE SALTS (5) (5804P) - TRADE SECRET

Fraction by Wt: 0.5-1.5%

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

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

LD50 LC50 Mixture:TLV FOR INGRED #6 IS 0.1MG/M*3

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

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

Health Hazards Acute and Chronic:EYES:MODERATE IRRITATION.SKIN:MAY

CAUSE MODERATE IRRITATION.MAY BE DERMALLY ABSORBED IN HARMFUL AMOUNTS.INGEST:UNLIKELY ROUTE OF EXPOSURE.INHAL:SINGLE EXPOSURE ABOVE RECOMMENDED GUIDELINES MAY CAUSE RESPIRATORY IRRITATION AND CNS EFFECTS.CHRONIC(VIA INHALATION):MAY DAMAGE LIVER,KIDNEYS,HEART AND BLOOD FORMING ORGANS.

Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1%

WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.

Effects of

Overexposure:INHAL:HEADACHE,DIZZINESS,DROWSINESS,INCOORDINATON,SLOW ED REACTION TIME,SLURRED SPEECH,GIDDINESS,SORE THROAT,COUGHING.EYES:REDNESS,SWELLING,PAIN,TERAING,HAZY VISION.SKIN:REDNESS,SWELLING,ITCHING,DRYNES S.CHRONIC:BLOOD-WEAKNESS,FATIGUE,LIVER/KIDNEY-BLOOD IN URINE,DECREASED URINE OUTPUT,BACK PAIN,YELLOW SKIN,ABDO TENDERNSS

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING BLO

OD,HEART,LIVER,KIDNET AND RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH WATER.GET MEDICAL ATTENTION.EYES:FLUSH WITH WATER FOR 15 MINUTES.GET MEDICAL ATTENTION.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NE EDED.INGEST:DO NOT INDUCE VOMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,GIVE 2 GLASSES OF WATER.

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

Flash Point Method:SCC

Flash Point:NONE

Extinguishing Media:THIS ITEM IS A FIRE EXTINGUISHANT.

Fire Fighting Procedures:NOT APPLICABLE.

Unusual Fire/Explosion Hazard:FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.

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

Spill Release Procedures:USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.VENTILATE AREA.SOAK UP WITH NON-COMBUSTIBLE INERT ADSORBANT(EG.CLAY);PL

ACE COLLECTED MATERIAL IN AN APPROPRIATE METAL CONTAINER FOR DISPOSAL;SEAL THE CO NTAINER.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions:FOLLOW LABEL DIRECTIONS.

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

Respiratory Protection:USE A NIOSH/MSHA HALF-MASK ORGANIC VAPOR R

ESPIRATOR WITH A DUST/MIST PREFILTER.

Ventilation:USE GENERAL DILUTION VENTILATION.

Protective Gloves:BUTYL RUBBER.

Eye Protection:WEAR VENTED GOGGLES.

Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:USE REASONABLE CARE IN HANDLING THIS PRODUCT.WASH HANDS AFTER USE AND BEFORE EATING.

Supplemental Safety and Health
NONE

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

HCC:N1

Boiling

Pt:=-100.C, 212.F

Vapor Pres:17.4

Vapor Density:0.77

Spec Gravity:1

VOC Pounds/Gallon:200

pH:8.5

Evaporation Rate & Reference: