

MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS -- FC-206CF LIGHT WATER BRAND
AQUEOUS FILM FORMING FOAM -- 4210-01-056-8343

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Product Identification
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Product ID:FC-206CF LIGHT WATER BRAND AQUEOUS FILM FORMING FOAM

MSDS Date:11/05/1997

FSC:4210

NIIN:01-056-8343

MSDS Number: C CVS V

==== 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 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: 78-81%

Other REC Limits:NONE

RECOMMENDED

Ingred Name:DIETHYLENE GLYCOL MONOBUTYL ETHER

CAS:112-34-5

RTECS #:KJ9100000

Fraction by Wt: 3-7%

Other REC Limits:NONE RECOMMENDED

Ingred Name:UREA

CAS:57-13-6

RTECS #:YR6250000

Fraction by Wt: 3-7%

Other REC Limits:NONE RECOMMENDED

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

CAS:102-71-6

RTECS #:KL9275000

Fraction by Wt: 0.1-1%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:5 MG/M3

00-5809P, -5810P.
Fraction by Wt: 1.0-5.0%
Other REC Limits:NONE RECOMMENDED

Ingred Name:AMPHOTERIC FLUOROALKYLAMIDE DERIVATIVE, NEW JERSEY TRADE
SECRET REGISTRY #:04499600-5807P
Fraction by Wt: 1-2%
Other REC Limits:NONE RECOMMENDED

Ingred Name:PERFLUOROALKYL SULFONATE SLATS (5) NEW JERSEY TRADE SECRET
REGISTRY #: 04499600-5808P.
Fraction by Wt: 0.1-1%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SKIN & EYE CONTACT MAY CAUSE
IRRITATION. INHALATION MAY CAUSE CNS DEPRESSION, UPPER RESPIRATORY
IRRITATION. INGESTION NOT A LIKELY ROUTE OF EXPOSURE. CHRONIC:
PROLONGED EXPOSURE MAY CAUSE BLOOD DISORDERS, BONE MARROW
DEPRESSION, KIDNEY EFFECTS, LIVER EFFECTS, PULMONARY EDEMA.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%

OR GREATER IS LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.
Effects of Overexposure:EYES-REDNESS,SWELLING,PAIN,TEARING,HAZY
VISION.SKIN-REDNESS,SWELLING,ITCHING.INHALED-HEADACHE,DIZZINESS,DROWSINESS,
INCORORDINATION,SLOWED REACTION TIME,SLURRED SPEECH,GIDDINESS,
UNCONSCIOUSNESS,COUGHING ,SNEEZING,WEAKNESS,FAIGUE,REDUCED URINEVOLUME,
BLOOD IN URINE,BACK PAIN,JAUNDICE,TENDERNESS OF UPPER ABDOMEN.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES-FLUSH WITH WATER FOR 15 MINUTES, HOLD LIDS OPEN. GET
MEDICAL ATTENTION. SKIN-REMOVE CONTAMINATED CLOTHES. FLUSH WITH
WATER. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.
INHALED-REMOVE TO FRESH AIR. RESTORE BREATHING AS NEEDED.
INGESTED-IF CONSCIOUS, DRINK 2 GLASSES WATER! SEEK MEDICAL
ATTENTION.

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

Flash Po

int Method:SCC
Flash Point:NONE
Lower Limits:NA
Upper Limits:NA
Extinguishing Media:PRODUCT IS FIRE-EXTINGUISHING AGENT.
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:OBSERVE PRECAUTIONS IN OTHER SECTIONS OF MSDS.
VENTILATE AREA. CONTAIN SPILL. COVER WITH ABSORBENT MATERIAL.
COLLECT SPILLED MATERIAL. CLEAN UP RESIDUE WITH WATER. PLACE IN AAN
APPROVED METAL CONTAINER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM
HEAT. KEEP OUT OF DIRECT SUNLIGHT. KEEP CONTAINER DRY. KEEP
CONTAINER IN A WELL-VENTILATED AREA.

Other Precautions:KEEP CONTAINER TIGHTLY CLOSED. DO NOT EAT, DRINK OR
SMOKE WHEN USING THIS PRODUCT. AVOID BREATHING VAPORS, MIST OR
SPRAY.

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

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Respiratory Protection:NONE NORMALLY REQUIRED. IF ENGINEERING CONTROLS
FAIL OR NON-ROUTINE OR EMERGENCY OCCURS, USE NIOSH/MSHA-APPROVED
RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR SCBA OR SUPPLIED-AIR
RESPIRATOR. USE IAW 29 CFR 1910.134.

Ventilation:USE WITH ADEQUATE DILUTION VENTILATION.

Protective Gloves:BUTYL RUBBER GLOVES.

Eye Protection:WEAR VENTED GOGGLES.

Other Protective Equipment:NO SMOKING WHILE USING PRODUCT. DSCR-VBA
STAFF: EYE WASH STATION & SAFETY SHOWER.

Work

Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE
EATING, DRINKING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE
REUSE.

Supplemental Safety and Health

HAZ DECOMPO PROD:CONCEN DOES NOT PRESENT HAZ. DISPO:INCLUDE HF.REGS
VARY CONSULT APPLICABLE REG/AUTHORITIES BEF DISPO.IF UNCONTROLLED
RELEASE OCCUR DETERMINE IF RELEASE QUALIFIES AS RQ.HAZ WASTE#:NONE.

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

HCC:N1

Boiling Pt.=100.C, 212.F

Vapor Pres:17.

8 @20C

Vapor Density:0.69

Spec Gravity:1.03

VOC Pounds/Gallon:103

pH:8.5

Evaporation Rate & Reference: