

MINNESOTA MINING & MFG INDUSTR -- FC-203CF LIGHT WATER AFFF 3%

=====
MSDS Safety Information
=====

FSC: 4210
NIIN: 01-144-0291
MSDS Date: 12/17/1999
MSDS Num: CJDJB
Product ID: FC-203CF LIGHT WATER AFFF 3%
MFN: 02
Responsible Party
Cage: 28112
Name: MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS
Address: 3M
CTR
City: ST PAUL MN 55144
Info Phone Number: 612-733-5454
Emergency Phone Number: 612-733-1100
Resp. Party Other MSDS No.: 10-4322-3
Preparer's Name: UNKNOWN
Proprietary Ind: Y
Published: Y

=====
Contractor Summary
=====

Cage: 76381
Name: MINNESOTA MINING AND MFG CO, DBA 3M
Address: 3M CENTER BLDG 224-5S-04
City: SAINT PAUL MN 55144-1000
Phone: 866-556 5712 / 612-733-1110
Cage: 28112
Name: MINN
ESOTA MINING AND MFG CO PERFORMANCE CHEM AND FLUIDS DIV
Address: 3M CTR
City: SAINT PAUL MN 55144-1000
Phone: 800-364-3577/651-737-6501

=====
Item Description Information
=====

Item Manager: S9I
Item Name: FOAM LIQUID,FIRE EXTINGUISHING
Specification Number: MIL-F-24385
Type/Grade/Class: 3 TYPE
Unit of Issue: DR
Quantitative Expression: 00000000055GL
UI Container Qty: 1
Type of Container: DRUM

===

=====
Ingredients
=====

Name: *** PROPRIETARY ***

=====
Health Hazards Data
=====

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

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: ACUTE:

EYES-IRRITATION. SKIN-MAY CAUSE IRRITATION.

INHALATION MAY CAUSE CNS DEPRESSION, UPPER RESPIRATORY IRRITATION. INGESTION IS NOT A LIKELY ROUTE OF EXPOSURE. CHRONIC: PROLONGED OR REPEATED SKIN EXPOSURE MAY CAUSE ABSORPTION WHICH CAN CAUSE HARMFUL EFFECTS. PROLONGED OR REPEATED INHALATION MAY CAUSE BLOOD DISORDERS, BONE MARROW DEPRESSION, KIDNEY EFFECTS, LIVER EFFECTS, PULMONARY EDEMA.

Explanation Of Carcinogenicity: THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINO

GENS BY NTP,IARC OR OSHA.

Signs And Symptoms Of Overexposure: EYES-REDNESS, SWELLING, PAIN, TEARING, HAZY VISION. SKIN-REDNESS, SWELLING, ITCHING DRYNESS. INHALED-CNS DEPRESSION: HEADACHE, DIZZINESS, DROWSINESS, INCOORDINATION, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS, UNCONSCIOUSNESS,; RESPIRATORY IRRITATION: SORENESS OF NOSE & THROAT, COUGHING, SNEEZING.

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER

First Aid: EYES: IMMEDIATELY FLUSH WITH THE LARGE AMOUNTS OF WATER FOR AT LEAST

15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN-FLUSH WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. IF SYMPTOMS CONTINUE; CALL A PHYSICIAN. INGESTED: IF CONSCIOUS, DRINK TWO GLASSES WATER. CALL A PHYSICIAN.

=====
Handling and Disposal
=====

Spill Release Procedures: OBSERVE PRECAUTIONS IN OTHER SE

CTIONS. VENTILATE

AREA. CONTAIN SPILL. COVER WITH ABSORBENT MATERIAL. COLLECT SPILLED MATERIAL. CLEAN UP RESIDUE WITH WATER. PLACE IN AN APPROVED METAL CONTAINER. SEAL THE CONTAINER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DISCHARGE SPENT SOLUTIONS TO A WASTEWATER TREATMENT SYSTEM. REDUCE DISCHARGE RATE IF FOAMING OCCURS. LARGE QUANTITIES MAY ADVERSELY AFFECT BIOLOGICAL TREATMENT OF WASTE WATER. INCINERATE IN AN INDUSTRIAL OR COMMERCIAL FACILITY IN THE PRESENCE OF A COMBUSTIBLE MATERIAL..

COMBUSTION WILL PRODUCE HYDROGEN FLUORIDE.

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

Other Precautions: AVOID SKIN AND/OR EYE CONTACT. AVOID BREATHING OF VAPORS, SPRAY OR MISTS. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.

=====
Fire and Explosion Hazard Information
=====

Flash Point Method

: SCC

Flash Point Text: NONE

Extinguishing Media: THIS ITEM IS A FIRE EXTINGUISHING AGENT.

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

=====
Control Measures
=====

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: USE GENERAL DILUTION VENTILATION.

Protective Gloves: BUTYL RUBBER.

Eye Protection: WEAR VENTED GOGGLES.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER. DLA-: ANSI APPROVED EMERGENCY EYEWASH & DELUGE SHOWER.

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: N1

Boiling Point: =100.C, 212.F

Vapor Pres: 17.4

Vapor Density: 0.77

Spec Gravity: 1

PH: 8.5

VOC Grams/Liter: 200

Solubility in Water: MISCIBLE

Appearance and Odor: CLEAR AMBER COLORED LIQUID.ODOR NOT REPORTED.

Percent Volatiles by Volume: 90(WT)

Corrosion Rate: UNKNOWN

=====

Reactivity Data

=====

Stability Indicator: YES

Stability Co

ndition To Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: CARBON DIOXIDE,CARBON MONOXIDE,OXIDES OF NITROGEN AND SULFUR,HYDROGEN FLUORIDE. THERMAL DECOMPOSITION OF USAGE CONCENTRATIONS DOES NOT PRESENT A HAZARD.

Hazardous Polymerization Indicator: NO

=====

Toxicological Information

=====

Toxicological Information: NONE SPECIFIED BY MANUFACTURER.

=====

Ecological Information

=====

Ecological: 5-DAY BIOCHEMICAL OXYGEN DEMAND (BOD5): 0.35 G/G; 20-DAY BIOCHEMICAL OXYGEN DEMAND (BOD20): 0.75 G/G; 20-DAY BOD/COD: 0.96; CHEMICAL OXYGEN DEMAND (COD): 0.75 G/G; 96-HR LC50, FEATHERED MINNOW (PIMEPHA LES PROMELAS): >1,000 MG/L; 48-HR EC50, WATER FLEA (DAPHNIA MAGNA): >1000MG/L; 96-HR EC, ALGAE (SELENNASTRUM CAPRICORNUTUM): 143 MG/L (130-156); 30-MIN EX50, PHOTOBACTERIUM PHOSPHOREUM, (MICROTOX SYST EM): 280 MG/L (260-300); 3-HR, 20C EC50, ACTIVATED SLUDGE RESPIRATION (OECD METHOD #209): >1000 MG/L.

=====

MSDS Transport Information

=====

Transport Information: NONE SPECIFIED BY MANUFACTURER.

=====

Regulatory Information

=====

Sara Title III I

nformation: NONE SPECIFIED BY MANUFACTURER

Federal Regulatory Information: THE COMPONENTS OF THIS PRODCUT ARE IN COMPLIANCE WITH THE CHEMICAL REGISTRATION REQUIREMENTS OF TSCA.

State Regulatory Information: THIS PRODUCT IS NOT KNOWN TO HAVE CONTAIN ANY SUBSTANCES REGULATED UNDER CALIFORNIA PROPOSITION 65. VOLATILE ORGANIC COMPOUNDS: 200 GRAMS/LITER SOUTH COAST AIR QUALITY MGMT DIST METHOD CALC: @ 20 C.

=====
Other Information
=====

=====
Other Information: THE COMPONENTS OF THIS PRODCUT ARE IN COMPLIANCE WITH THE CHEMICAL REGISTRATION REQUIREMENTS OF TSCA, EINECS, CDSL, AICS, MITI.
=====

=====
Transportation Information
=====

Responsible Party Cage: 28112
Trans ID NO: 139446
Product ID: FC-203CF LIGHT WATER AFFF 3%
MSDS Prepared Date: 12/17/1999
Review Date: 03/10/1999
MFN: 2
Net Unit Weig
ht: 457 LBS
Multiple KIT Number: 0
Unit Of Issue: DR
Container QTY: 1
Type Of Container: DRUM
=====

=====
Detail DOT Information
=====

DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
=====

=====
Detail IMO Information
=====

IMO PSN Code: ZZZ
IMO Proper Shipping Name: N
OT REGULATED FOR THIS MODE OF TRANSPORTATION
=====

=====
Detail IATA Information
=====

IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
=====

=====
Detail AFI Information
=====

AFI PSN Code: ZZZ
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
=====

=====
HAZCOM Label
=====

Product ID: FC-203CF LIGHT WATER AFFF 3%

Cage: 76381

Company Name: MINNESOTA MINING AND MFG CO, DBA 3M

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

City: SAINT PAUL MN

Zipcode: 55144-1000

Health Emergency Phone: 612-733-1100

Label Required IND: Y

Date Of Label Review: 03/10/1999

Status Code: A

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

S

Signal Word: WARNING

Respiratory Protection IND: YES

Health Hazard: Moderate

Contact Hazard: Slight

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS: KIDNEY, LIVER, CNS, SKIN, EYES, LUNGS.

EYES-IRRITATION. SKIN-MAY CAUSE IRRITATION. INHALATION MAY CAUSE CNS DEPRESSION, UPPER RESPIRATORY IRRITATION. EYES: IMMEDIATELY FLUSH WITH THE LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN-FLUSH WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. IF SYMPTOMS CONTINUE; CALL A PHYSICIAN. INGESTED: IF CONSCIOUS, DRINK TWO GLASSES WATER. CALL A PHYSICIAN.

=====
Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or inte

nds said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this info

rmation to their

particular situation regardless of similarity to a corresponding Department of Defense or other government situation.