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MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS -- FC-206CF, LIGHT WATER BRAND

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

MSDS Date:08/22/1996

FSC:4210

NIIN:01-056-0883

MSDS Number: CCHXQ === Responsible Party ===

Company Name: MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS

Address:3M CTR

С

ity:ST PAUL State:MN ZIP:55144 Country:US

Info Phone Num:612-733-5454

Emergency Phone Num:612-733-5454

CAGE:28112

=== Contractor Identification ===

Company Name: MINNESOTA MINING AND MFG CO PERFOMANCE 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

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000
Fraction by Wt: 78-81%
Other REC Limits:NONE S

PECIFIED

Ingred Name: DIETHYLENE GLYCOL MONOBUTYL ETHER

CAS:112-34-5

RTECS #:KJ9100000 Fraction by Wt: 10%

Other REC Limits: NONE SPECIFIED

Ingred Name:FLUOROALKYLAMIDE DERIVATIVE

Fraction by Wt: 1 - 2%

Other REC Limits: NONE SPECIFIED

Ingred Name: ALKYL SULFATE SALTS

Fraction by Wt: 1 - 5%

Other REC Limits: NONE SPECIFIED

Ingred Name:1H-BENZOTRIAZOLE,METHYL-

CAS:29385-43-1

RTECS #:DM1300000 Fraction by Wt: 0 - 0.1% raction by Wt: 3 - 7%

Other REC Limits: NONE SPECIFIED

Ingred Name: PERFLUOROAKYL SULFONATE SALTS

Fraction by Wt: 0.1 - 1%

Other REC Limits: NONE RECOMMENDED

========= 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:MODERATE EYE IRRITATION. MILD SKIN IRRITATION. SKIN MAY ABSORB HARMFUL AMOUNTS. SINGLE OVEREXPOSURE, MAY CAUSE CENTRAL NERV

OUS SYSTEM DEPRESSION & IRRITATION (UPPER RESPIRATORY), BLOOD DISORDERS, BONE MARROW DEPRESSION, KIDNEY EFFECTS, LIVER EFFECTS, PULMONARY EDEMA. INGESTION IS NOT A LIKELY ROUTE EXPOSURE.

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. INHALATION:HEADACHE, D

IZZINESS, DROWSINESS, INCOORDINATION, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS & UNC ONSCIOUSNESS. SORENESS OF THE NOSE & THROAT, COUGHING AND SNEEZING.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES.
GET MEDICAL ATTENTION. SKIN:FLUSH SKIN WITH LARGE AMOUNTS OF WATER.
IF IRRITATION PERSISTS, GET IMMEDIATE MEDICAL AT
TENTION.

INHALATION:REMOV E PERSON TO FRESH AIR. IF SYMPTOMS CONTINUE, CALL A PHYSICIAN. INGESTION:DRINK TWO GLASSES OF WATER. CALL A PHYSICIAN IMMEDIATELY.

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

Flash Point Method:SCC

Flash Point:NONE

Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN

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 SECTIONS. COVER WITH ABSORBENT MATERIAL. COLLECT SPILLED MATERIAL. CLEANUP RESIDUE WITH WATER. PLACE IN APPROVED METAL CONTAINER. 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 CONTAI NER 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 & I/A/W OSHA REGULATIONS: HALF MASK ORGANIC VAPOR RESP IRATOR WITH DUST/MIST PREFILTER. Ventilation: USE WITH ADEQUATE DILUTION VENTILATION. **Protec** tive Gloves:BUTYL RUBBER GLOVES RECOMMENDED. Eye Protection: WEAR VENTED GOGGLES. Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER. 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:N1 NRC/State Lic Num:NONE Boiling Pt:=100.C, 212.F Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Va por Pres:17.8 Vapor Density:0.62 Spec Gravity:1 VOC Pounds/Gallon:103 pH:8.50 Evaporation Rate & Description R 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
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,

OXIDES OF NIT

ROGEN, OXIDES OF SULFUR, HYDROGEB CYANIDE, HYDROGEN FLUORIDE, AMMONIA. Conditions to Avoid Polymerization:WILL NOT OCCUR.
======= Disposal Considerations ==========
Waste Disposal Methods:SLOWLY DISCHARGE SPENT SOL & SMALL AMOUNTS (