

MINNESOTA MINING AND MFG CO -- FC-780 3M BRAND AFFF 6% CONCENTRATE --
4210-01-056-8343

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Product Identification
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Product ID:FC-780 3M BRAND AFFF 6% CONCENTRATE

MSDS Date:08/31/1993

FSC:4210

NIIN:01-056-8343

MSDS Number: BWXSJ

=== Responsible Party ===

Company Name:MINNESOTA MINING AND MFG CO

Address:3M CTR

City:ST. PAUL

State:MN

ZIP:55144-1000

Country:US

Info Phone Num:612-733-1110

Emerg

ency Phone Num:612-733-1110

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

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Composition/Information on Ingredients
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Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 77%

Ingred Name:2-(2-BUTOXYETHYOXY)-ETHANOL, DIETHYLENE GLYCOL MONOBUTYL
ETHER (BUTYL CARBITOL)

CAS:11

2-34-5
RTECS #:KJ9100000
Fraction by Wt: 14%

Ingred Name:UREA; CARBAMIDE
CAS:57-13-6
RTECS #:YR6250000
Fraction by Wt: 6%

Ingred Name:SYNTHETIC DETERGENTS
Fraction by Wt: 0.1-5%

Ingred Name:FLUOROALKYL SURFACTANTS
Fraction by Wt: 0.1-5%

===== 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:EYES: MILD IRRITATION. SKIN: MILD
IRRITATIO
N FROM PROLONGED/REPEATED CONTACT. MAY BE ABSORBED THROUGH
THE SKIN. INHALATION: IRRITATION OF UPPER RESPIRATORY/PULMONARY
EDEMA/RESPIRATORY FAILURE/DEATH. M AY CAUSE CNS DEPRESSION.
PROLONGED/REPEATED OVEREXPOSURE MAY CAUSE HEMOLYSIS (DESTRUCTION OF
RED BLOOD CELLS).

Explanation of Carcinogenicity:NONE

Effects of

Overexposure:IRRITATION/REDNESS/SWELLING/PAIN/TEARING/ITCHING/GI
DISTURBANCES/LOSS OF APPETITE/NAUSEA/VOMITING/DIARRHEA/SORENESS OF
THE NOSE & THROAT/COUGH
ING/SNEEZING/CONGESTION/DIFFICULTY
BREATHING/HEADACHE/DIZZ INESS/DROWSINESS/INCOORDINATION/SLOWED
REACTION TIME/SLURRED SPEECH/GIDDINESS/UNCONSCIOUSNESS/DARK URINE &
JAUNDICE

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

First Aid:EYES/SKIN: IMMEDIATELY FLUSH W/LARGE AMOUNTS OF WATER.
INHALATION: REMOVE TO FRESH AIR. INGESTION: DRINK 2 GLASSES OF
WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

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Flash Point Method:SCC

Flash Point:NONE

Extinguishing Media:PRODUCT IS A FIRE-EXTINGUISHING AGENT

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING & EQUIPMENT INCLUDING A SELF CONTAINED POSITIVE PRESSURE/PRESSURE DEMAND BREATHING APPARATUS.

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

Spill Release Procedures:COVER W/ABSORBENT MATERIAL. COLLECT MATERIAL. CLEAN UP RESIDUE.

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

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Handling and Storage Precautions:STORE IN A COOL PLACE. STORE AWAY FROM HEAT. KEEP CONTAINER DRY. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY CLOSED.

Other Precautions:USE IN A WELL VENTILATED AREA. AVOID EYE & PROLONGED/REPEATED SKIN CONTACT. AVOID PROLONGED BREATHING OF VAPORS.

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

Respiratory Protection:USE A NIOSH APPROVED RESPIRATOR; HALF MASK/ORGANIC VAPOR RESPIRATOR BASED ON AIRBORNE CONCENTRATIONS OF CONTAMINANTS.

Ventilation:LOCAL EXHAUST SUFFICIENT TO MAINTAIN EMISSIONS BELOW RECOMMENDED EXPOSURE LIMITS.

Protective Gloves:REQUIRED

Eye Protection:FACE MASK

Other Protective Equipment:HELMET, BUNKER COAT & PANTS, BANDS AROUND ARMS/WAIST/LEGS, PROTECTIVE COVERING FOR EXPOSED AREAS OF THE HEAD.

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:212F

Vapor Pres: 30.4

Vapor Density: 0.62

Spec Gravity: 1.03

p

H: 8.5

Evaporation Rate & Reference:(BU 0 AC=1):