

D-218
X-CHEM, LLC
(504) 733-5806

6120 JEFFERSON HWY.
HARRAHAN, LA 70123



MATERIAL SAFETY DATA SHEET

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(Supersedes all previous)

SECTION I - GENERAL INFORMATION

Chemical Name and Synonyms: ORGANIC DEFOAMER
Trade Name and Synonyms: X-CHEM D-218

Chemical Family: MIXED ALCOHOLS
Chemical Formula: MIXTURE
H.M.I.S. Ratings
Health: 2
Flammability: 3
Reactivity: 0
Personal Protection: H

C.A.S. Registry #: NOT APPLICABLE

Manufacturer's Name: X-CHEM, LLC
Address: 6120 JEFFERSON HIGHWAY
HARRAHAN, LA 70123
Prepared By: Mark A. Vile, Chief Chemist
Emergency Telephone Number: 1-800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

Chemical Name	C.A.S. Number	Content (Max %)	Hazards (Note A)	Status (Note B)	RQ lbs	Other (Note C)	TLV (Units)
Methanol	67-56-1	85	YES	YES	5000	200 PPM Skin	
n-Butanol	71-36-3	10	YES	YES	5000	100 PPM	
Aliphatic Alcohols		Conf.	Conf.	NO	3.5	NO	NE

Note A: 1=TOXIC 2=FLAMMABLE 3=COMBUSTIBLE 4=CORROSIVE 5=IRRITATING 6=CARCINOGEN 7=OXIDIZER
Note B: Those ingredients marked "YES" are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.
Note C: M=Marine Pollutant S=Severe Marine Pollutant O=Ozone Depleting Substance T=TSCA Restricted Use
Note D: X-Chem certifies that the components of this product are listed on the TSCA inventory and, unless specifically noted, are not subject to any TSCA Section 5 use restrictions (40 CFR Part 721).

SECTION III - PHYSICAL DATA

Boiling Point (°F): >150
Specific Gravity (Water=1): 0.79-0.81
Density (lbs/gal): 6.5-6.8

Vapor Density (Air=1): >1
Vapor Pressure: ND mm Hg at 20 °C
Percent Volatiles: ND
Evaporation Rate (BuAc=1): c. 2

Water Solubility: SOLUBLE
pH: ND @ 100 %
Viscosity: SLIGHT

Color: PALE
Odor: ALCOHOLIC
Clarity: CLEAR TO HAZY

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point (°F): <100
(Method) TCC
Flammable Limits: (Methanol) L.E.L.% 5.5 U.E.L.% 36.5

FIRE EXTINGUISHING MEDIA
Universal Foam: XX
Carbon Dioxide: XX
Water Fog/Spray: XX
Alcohol Foam: XX
Dry Chemical: XX
Other:

Special Firefighting Procedures:
WEAR SELF CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.
AVOID BREATHING SMOKE OR FUMES.

Unusual Fire and Explosion Hazards:
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO POINTS DISTANT FROM ORIGIN.
POSSIBLE HAZARDOUS THERMAL DECOMPOSITION PRODUCTS. SEE SECTION VII.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value: Units:
NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Identification of Hazards:
ANESTHETIC EFFECTS FROM INHALATION OF HIGH CONCENTRATIONS SUCH AS DROWSINESS, HEADACHE, BLURRED VISION, DIZZINESS OR NAUSEA.
IRRITATION OF EYES AND POSSIBLE IRRITATION OF SKIN ON CONTACT.
REDNESS, DRYING OR DERMATITIS OF SKIN ON PROLONGED OR REPEATED CONTACT.
POSSIBLE TOXICOLOGICAL EFFECTS FROM PROLONGED OR REPEATED CONTACT.
MAY CAUSE CHEMICAL PNEUMONITIS IF ASPIRATED INTO LUNGS.
TOXIC BY INGESTION; MAY CAUSE BLINDNESS OR DEATH IF SWALLOWED.

Primary Route(s) of Entry - Inhalation: XX Ingestion: Absorption:

EMERGENCY AND FIRST AID PROCEDURES

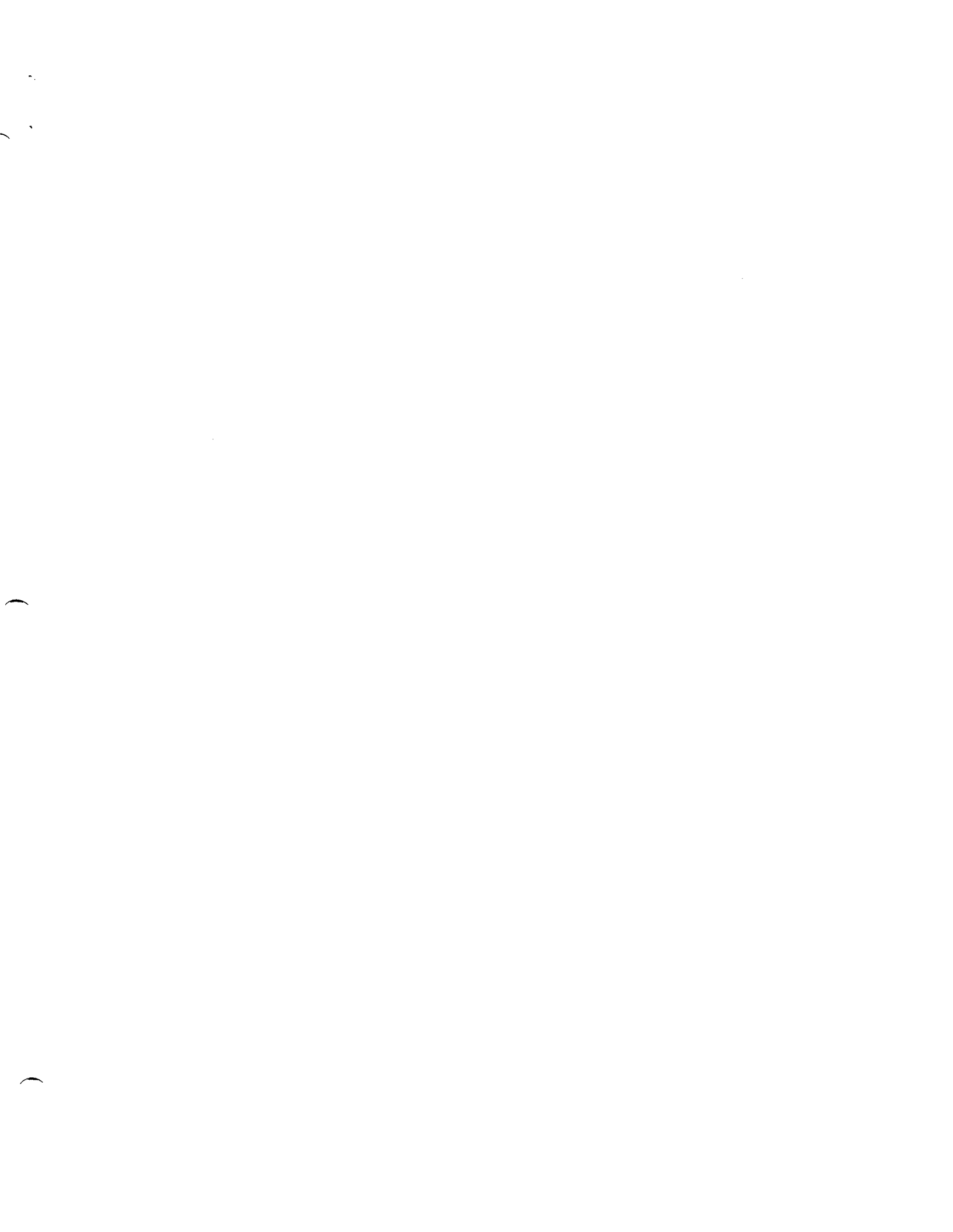
Inhalation: REMOVE VICTIM FROM CONTAMINATED AREA TO FRESH AIR.
IF BREATHING HAS STOPPED, BEGIN RESUSITATION AND ADMINISTER OXYGEN.
SEEK IMMEDIATE MEDICAL AID.

Eye Contact: FLUSH EYES COPIOUSLY WITH COOL WATER FOR AT LEAST 15 MINUTES.
IF IRRITATION PERSISTS, SEEK MEDICAL AID.

Skin Contact: REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.
WASH EXPOSED AREAS WITH SOAP AND WATER.
IF IRRITATION PERSISTS, SEEK MEDICAL AID.

Ingestion: DO NOT INDUCE VOMITING AND KEEP VICTIM WARM AND QUIET.
SEEK IMMEDIATE MEDICAL AID.

Notes to Physician: ASPIRATION INTO LUNGS MAY CAUSE CHEMICAL PNEUMONITIS.
MEASURES AGAINST CIRCULATORY SHOCK, RESPIRATORY DEPRESSION AND CONVULSION MAY BE NEEDED. TREAT SYMPTOMATICALLY.



SECTION VI - TOXICITY INFORMATION

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Methanol:	
ORAL-HUMAN	LDLo: 340 mg/kg
INH-L-HUMAN	TCLo: 86000 mg/m ³ ; IRRITATION
ORAL-HUMAN	LD(Typical): 100-250 mL
Butanol:	
ORAL-RAT	LD50: 790 mg/kg
INH-L-RAT	LC50: 8000 PPM/4 HR
SKIN-RABBIT	LD50: 3400 mg/kg

SECTION VII - REACTIVITY DATA

Stability: Unstable: Stable: XX

Conditions to Avoid:
NOT APPLICABLEIncompatibility (Materials to Avoid):
STRONG OXIDIZING AGENTS SUCH AS CHLORINE OR NITRATES.

Hazardous Decomposition Products:

CARBON MONOXIDE AND DIOXIDE COMBUSTION PRODUCTS,
VARIOUS HYDROCARBONS FROM VOLATILIZATION AND THERMAL DECOMPOSITION.

Hazardous Polymerization: May Occur: Will Not Occur: XX

Conditions to Avoid:
NOT APPLICABLE**SECTION VIII - SPILL OR LEAK REGULATIONS**Steps to Take if Material is Released or Spilled:
ELIMINATE ALL SOURCES OF IGNITION,
CONTAIN SPILL AND PICK UP FREE LIQUID,
SOAK UP RESIDUE WITH ABSORBENT MATERIAL,
PREVENT CONTAMINATION OF WATERWAYS OR SEWERS,
DO NOT FLUSH RESIDUE WITH WATER.

Waste Disposal Method:

RECLAMATION OR CHEMICAL INCINERATION
ACCORDING TO ALL LOCAL, STATE AND FEDERAL REGULATIONS.Neutralizing Agent(s):
NONE**SECTION IX - SPECIAL PROTECTION INFORMATION**

Required Ventilation:

LOCAL EXHAUST ADEQUATE TO KEEP CONCENTRATION BELOW PERMISSIBLE LIMITS,
DO NOT USE WITHOUT ADEQUATE VENTILATION ESPECIALLY IN CONFINED SPACES.

Respiratory Protection:

WHERE VENTILATION IS INADEQUATE, THE FOLLOWING ARE RECOMMENDED:
FOR FUMES OF Methanol EXCEEDING

2000 PPM:	SA/SCBA
10000 PPM:	SAF/SCBAF
25000 PPM:	SAF-PD,PP,CF
ESCAPE:	SCBA

Protective Gloves:

NEOPRENE, RUBBER OR OTHER IMPERVIOUS FABRIC FOR CONCENTRATED PRODUCT.

Eye Protection:

CHEMICAL GOGGLES OR FACESHIELD.

Other Protection:

LONG SLEEVES AND PANTS,
RUBBER APRON AND BOOTS
SAFETY SHOWER AND EYEWASH STATION.**SECTION X - STORAGE AND HANDLING INFORMATION**

Precautions in Handling and Storage:

KEEP AWAY FROM EXCESSIVE HEAT, FIRE, FLAME OR SPARKS.
KEEP CONTAINER CLOSED WHEN NOT IN USE.
FOR INDUSTRIAL USE ONLY.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN,
AVOID CONTACT WITH SKIN AND EYES,
AVOID BREATHING FUMES OR VAPORS,
READ ENTIRE SHEET BEFORE USING PRODUCT.**SECTION XI - TRANSPORTATION INFORMATION**

D.O.T. Proper Shipping Name(s):

RQ FLAMMABLE LIQUID, n.o.s., (METHANOL, contains BUTANOL),
FLAMMABLE LIQUID, n.o.s., (METHANOL, BUTANOL)

Reportable Quantity: 882 (Methanol) Gallons

Hazard Class: 3 ID Number: UN1993 Packing Group: II

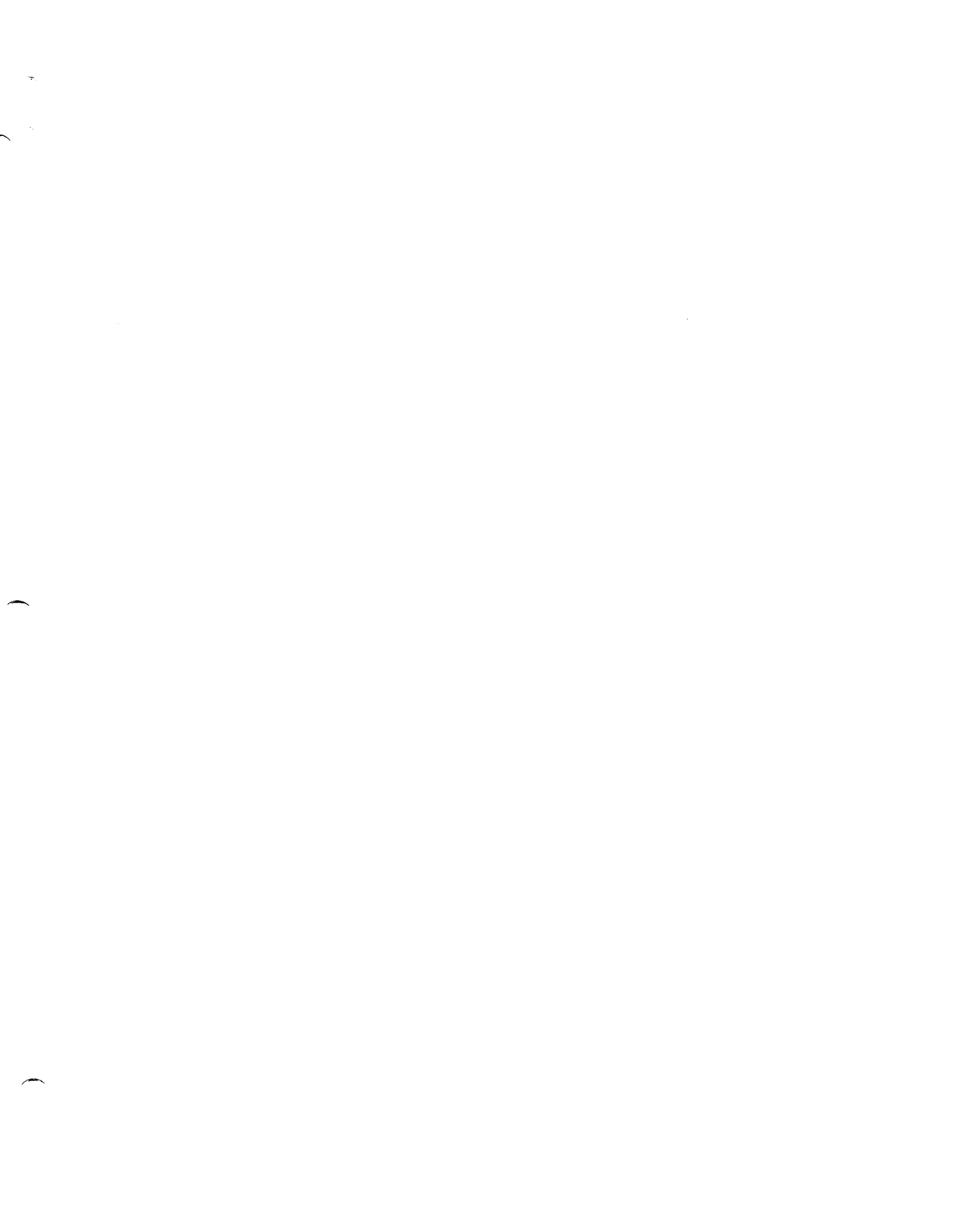
Emergency Response Guide Numbers: ERG90: 27 NAERG96: 127

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NA=Not Applicable

ND=No Data

NE=Not Established



CHEMICAL NAME ON MSDS : D-218

TYPE :

PRODUCT

Location: HARAHAN
 Date Assessed: JANUARY 2013
 Date Re-evaluated: JANUARY 2014
 Job: POURING / BENDING / MIXING
 Approved: LINDON POUSSON

Parts of the Body	Mechanical									Thermal		Electrical	Noise	Ionizing radiation	Magnetic Fields	Dusts, fibers	Fumes	Gases, vapors	Splashes, spurts	Ergonomic Stress/Strains	Biological Pathogens (bacteria, virus, fungi body fluids)	Pressure	Vacuum	Non-microbiological agents	Poisonous/Toxic Plants or Animals
	Cranium	Ears	Eyes	Respiratory Tract	Face	Whole Head	Hands	Arms	Feet	Legs	Slipping, falling over														
Upper / lower limbs																									
Head																									
Various																									

KEY:

EYES/FACE
 Side Shields (SS)
 Safety Glasses (SG)
 Face Shield (FS)
 Chemical Goggles (CGO)
 Welding Helmet (WH)
 Welding Glasses/Goggles (WGG)

HEAD/LUNGS
 Hard Hat (HH)
 Bump Cap (BC)
 Ear Plugs (EP)
 Ear Muffs (EM)
 Respirator (R)
 Particulate (RP)
 Chemical Cartridge (RCC)
 Supplied Air (RSA)
 SCBA (R-SCBA)

LIMBS
 Metatarsal Covers (MTC)
 Aprons (A)
 Sleeves (S)
 Chemical Gloves (CGL)
 Gloves (G)
 Safety-Toed Shoes (STS)

TRUNK
 Impervious Coverall (IC)
 Body Harness (BH)
 Positioning Belt (PB)
 Safety Vest - Visibility (SVV)
 Cooling Vest (CV)
 Water-Proof Clothing (WP/C)
 Insulated Clothing (INC)
 Cotton Clothing (CC)
 Non-Conductive Clothing (NCC)

SPECIFICS

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FACE SHIELDS PROTECT FACIAL AREAS
GOOGLES PROTECT EYES FROM SPLASHES

LONG SLEEVE SHIRTS PROTECT ARMS
CHEMICAL GLOVES PROTECT HANDS

