

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



6120 JEFFERSON HWY.  
HARRAHAN, LA 70123

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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	1.2	YES	5000	200 PPM Skin	
n-Butanol	71-36-3	10	2.5	YES	5000	100 PPM	
Aliphatic Alcohols		Conf.	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  
Evaporation Rate (BuAc=1): c. 2

Percent Volatiles: ND  
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) 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**

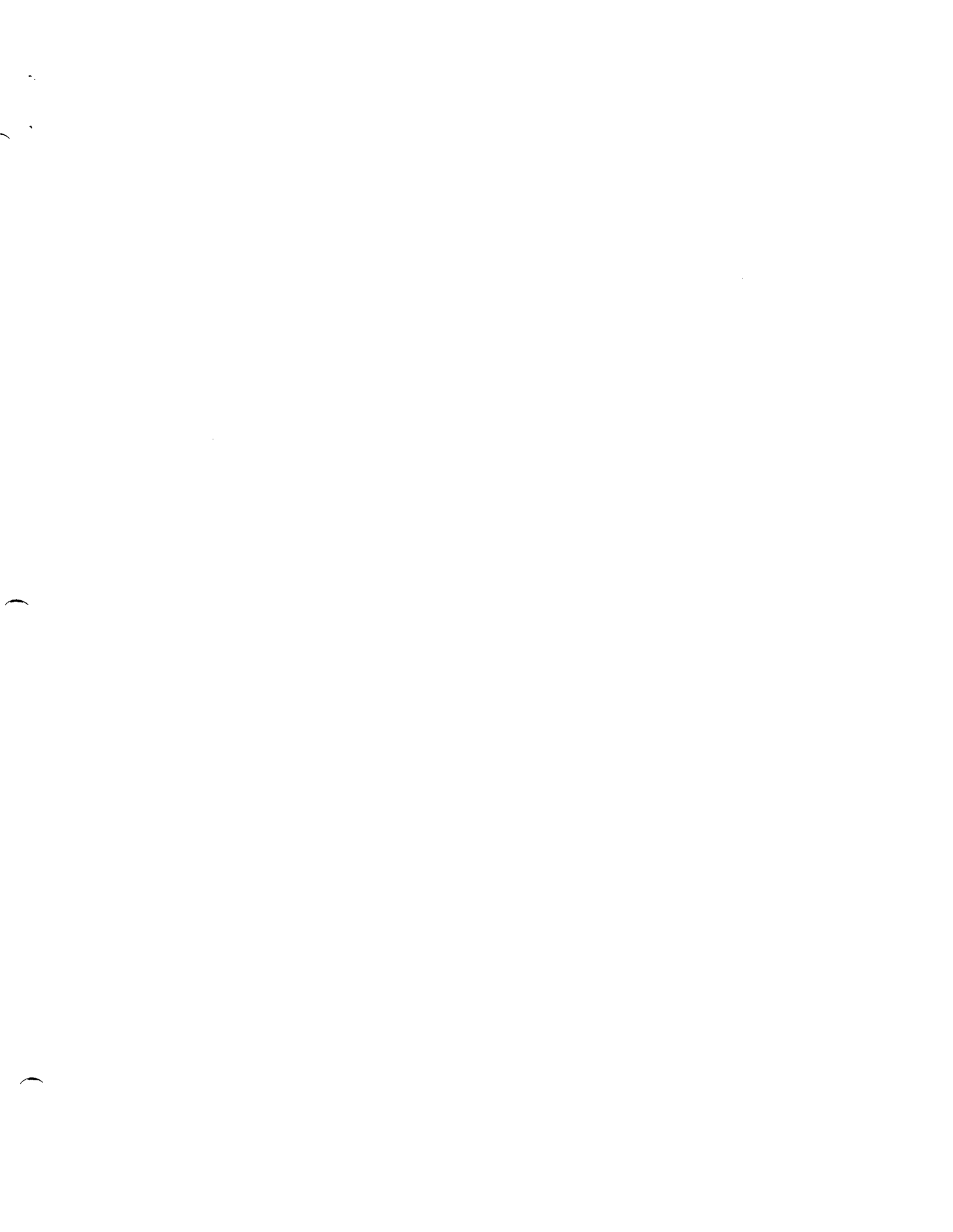
Inhalation: REMOVE VICTIM FROM CONTAMINATED AREA TO FRESH AIR.  
IF BREATHING HAS STOPPED, BEGIN RESUSITATION AND ADMINISTER OXYGEN.  
SEEK IMMEDIATE MEDICAL AID.

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  
 INHL-HUMAN TCLo: 86000 mg/m<sup>3</sup>; IRRITATION  
 ORAL-HUMAN LD(Typical): 100-250 mL  
 Butanol:  
 ORAL-RAT LD50: 790 mg/kg  
 INHL-RAT LC50: 8000 PPM/4 HR  
 SKIN-RABBIT LD50: 3400 mg/kg

**SECTION VII - REACTIVITY DATA**

Stability: Unstable: Stable: XX

Conditions to Avoid:  
 NOT APPLICABLE

Incompatibility (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: S/ASCSBA  
 10000 PPM: S/AF/SCBAF  
 25000 PPM: S/AF-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

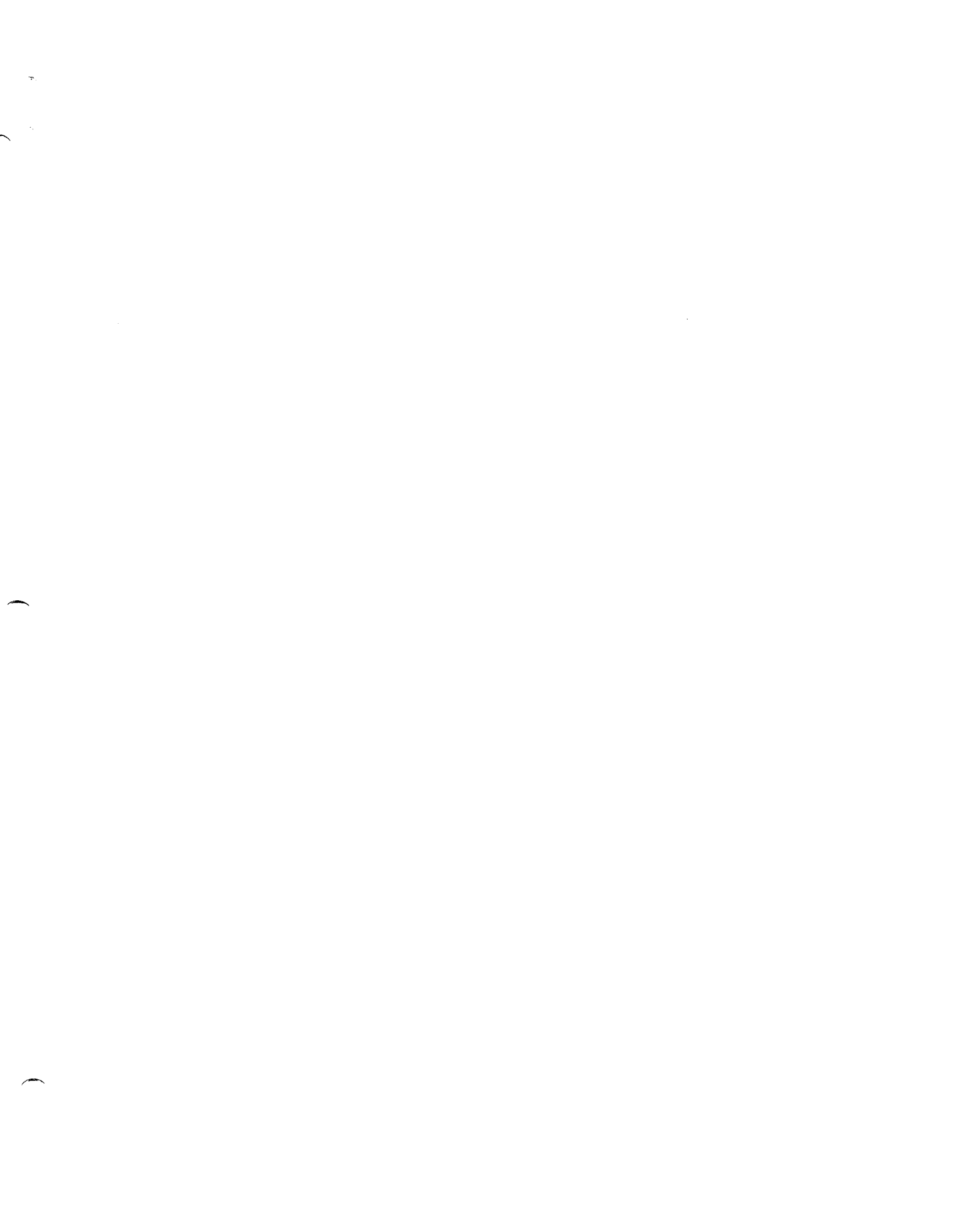
Emergency Response Guide Numbers: ERG90: 27 NAERG96: 127

The information contained herein is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. X-Chem, LLC, assumes no responsibility for the personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

NA=Not Applicable

ND=No Data

NE=Not Established



**PERSONAL PROTECTIVE EQUIPMENT ASSESSMENT**

CHEMICAL NAME ON MSDS : D-218

TYPE : PRODUCT

Location: HARAHAN		Risks																								
		Mechanical					Thermal			Others																
Date Assessed: JANUARY 2013		Falling Objects	Blows, Cuts, Impact, Crushing	Stabs, cuts, grazes Penetrating	Vibration/Friction	Slipping, falling over	Scalds, heat, fire	Cold	Immersion	Non ionizing radiation (Light, RF, UV, IR)	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		
Date Re-evaluate: JANUARY 2014																										
Job: POURING / BLENDING / MIXING																										
Approval: LYNDON POUSSON																										
Parts of the Body																										
Various	Upper / lower limbs	Head		Whole Head	Hands	Arms	Feet	Legs	Skin	Trunk	Abdomen															
		Cranium	Ears									Eyes	Respiratory Tract	Face												

**KEY:**

**EYES/FACE**

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

**SPECIFICS**

FACE SHIELDS PROTECT FACIAL AREAS  
GOGGLES PROTECT EYES FROM SPLASHES

**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)

**SPECIFICS**

**LIMBS**

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

**SPECIFICS**

LONG SLEEVE SHIRTS PROTECT ARMS  
CHEMICAL GLOVES PROTECT HANDS

**TRUNK**

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

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LONG SLEEVE SHIRTS PROTECT ARMS  
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