

MATERIAL SAFETY DATA SHEET

PREFER 90

MSDS DATE: 1/17/11
SUPERSEDES: NONE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PREFER 90

SUPPLIER: West Central Incorporated
ADDRESS: 2700 Trott Ave. SW, PO Box 897, Willmar, MN 56201

CHEMTREC PHONE: US: 1-800-424-9300 International: 1-202-483-7616

CHEMICAL NAME: Proprietary blend
CHEMICAL FAMILY: Surfactant blend
CHEMICAL FORMULA: Mixture

PRODUCT USE: Agricultural surfactant

SECTION 1 NOTES: None

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	% WT/% VOL	SARA 313 REPORTABLE	OSHA			ACGIH		
				TWA	STEL	Ceiling	TWA	STEL	Ceiling
Ethylene Oxide	75-21-8	<1 ppm	Not at level present		1 ppm TLV		1 ppm TLV		
Ethanol, 2, 2-oxybis	111-46-6	<20	No	Not established			Not established		

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: Prolonged contact may cause irritation to skin with local redness on skin.

INGESTION: May cause abdominal discomfort.

INHALATION: Avoid breathing vapors or spray mist.

ACUTE HEALTH HAZARDS: None beyond those described above

CHRONIC HEALTH HAZARDS: None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

CARCINOGENICITY

OSHA: No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** *See section 15, State Regulations

SECTION 3 NOTES: None

MATERIAL SAFETY DATA SHEET

PREFER 90

MSDS DATE: 1/17/11

SUPERSEDES: NONE

SECTION 4: FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Have the product container with you when calling a poison control center or doctor, or going for treatment.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If Swallowed: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: This product does NOT contain any pesticidal ingredients.

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: Unknown
(% BY VOLUME) **LOWER:** Unknown

FLASH POINT:

F: >200

C: >93

METHOD USED:

PMCC

AUTOIGNITION TEMPERATURE:

F: Unknown

C: Unknown

NFPA HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **OTHER:** -

EXTINGUISHING MEDIA:

Use National fire protection association Class B extinguishers (Carbon dioxide, water fog, dry chemical or foam). Water may also be used.

SPECIAL FIRE FIGHTING PROCEDURES:

Cool fire exposed containers with water. Wear NIOSH/OSHA approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: When exposed to fire conditions, oxides of carbon will be released

SECTION 5 NOTES: None

MATERIAL SAFETY DATA SHEET

PREFER 90

MSDS DATE: 1/17/11
SUPERSEDES: NONE

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: For small spills, dike and absorb with inert material. Use emergency response professionals if managing a release is beyond the capability of in-house personnel.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry place. Keep container tightly closed. Keep away from heat, sparks and flame. Do not use with aluminum equipment at temperatures above 49 °C (120 °F).

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : Where employees may be exposed, provide general dilution or local exhaust ventilation in volume and pattern to keep level of hazardous ingredient in Section 2 below recommended (ACGIH TLV) or regulate C (OSHA PEL) limit. Where employees will not be exposed, keep level below 25% of LEL in Sect. 2.

RESPIRATORY PROTECTION: Not required under normal operating conditions. If ventilation is not adequate, use respirator with organic vapor cartridge.

EYE PROTECTION: Chemical goggles

SKIN PROTECTION: Avoid skin contact by use of other protective clothing such as rubber gloves and apron, long sleeves, etc.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: A safety shower, an eyewash station and washing facilities should be available.

WORK HYGIENIC PRACTICES: None

EXPOSURE GUIDELINES: See section 2

SECTION 8 NOTES: Do not take internally. Prevent contact with contaminated clothing. Wash contaminated clothing before reuse.

MATERIAL SAFETY DATA SHEET

PREFER 90

MSDS DATE: 1/17/11
SUPERSEDES: NONE

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light brown, clear to slightly cloudy

ODOR: Mild characteristic

PHYSICAL STATE: Liquid

pH AS SUPPLIED: Not applicable

pH (Other): Unknown

BOILING POINT:

F: Unknown

C: Unknown

MELTING POINT:

F: Unknown

C: Unknown

FREEZING POINT:

F: Unknown

C: Unknown

VAPOR PRESSURE (mmHg): Unknown

@

F:

C:

VAPOR DENSITY (AIR = 1): Unknown

@

F:

C:

SPECIFIC GRAVITY (H₂O = 1): ~1.2

@

F: 68

C: 20

EVAPORATION RATE: Should be slower than basis

BASIS (butyl acetate=1):

SOLUBILITY IN WATER: Soluble

VISCOSITY: Unknown

@

F:

C:

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable Unstable

CONDITIONS TO AVOID (STABILITY): Avoid extremely high heat or open flame directly applied

INCOMPATIBILITY (MATERIAL TO AVOID): Do not use with aluminum equipment at temperatures above 49 °C (120 °F).

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known except under fire conditions. See section 5.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None known

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not available

SECTION 11 NOTES: None

MATERIAL SAFETY DATA SHEET

PREFER 90

MSDS DATE: 1/17/11
SUPERSEDES: NONE

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This material is not classified as an ignitable hazardous waste according to federal regulations. Check with your state environmental agency to determine if this material is regulated in any way. No disposal method should be used which would pose an environmental or human health threat including any which would contaminate ground or surface waters.

RCRA HAZARD CLASS: Not regulated

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Not regulated

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

OTHER AGENCIES: Not regulated

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Chemical Name	CAS Number	Range in %	RQ
Residual ethylene oxide (typical)	75-21-8	<0.001	10

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302/304 Extremely Hazardous Substances

Chemical Name	CAS Number	Range in %	TPQ	RQ
Residual ethylene oxide (typical)	75-21-8	<0.001	Below reportable concentrations	

311/312 HAZARD CATEGORIES:

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

313 REPORTABLE INGREDIENTS:

This product contains no substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) or 40 CFR Part 372 in concentrations above the de minimis concentration level.

STATE REGULATIONS:

WARNING! This product contains a detectable amount of ethylene oxide, which is known to the State of California to cause cancer and/or reproductive toxicity.

Ethoxylated products may contain residual amounts of ethylene oxide (EO) (< 1 ppm) which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene oxide causes tumors in laboratory animals. The Occupational Safety and Health Administration (OSHA) Permissible Exposure Level (PEL) for EO is 1 ppm for an eight-hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, including products containing residual EO. It is the responsibility of the employer to comply with OSHA ethylene oxide standard (29) CFR 1910.1047)

INTERNATIONAL REGULATIONS: None

SECTION 15 NOTES: None

MATERIAL SAFETY DATA SHEET

PREFER 90

SECTION 16: OTHER INFORMATION

MSDS DATE: 1/17/11
SUPERSEDES: NONE

OTHER INFORMATION: None

PREPARATION INFORMATION: Prepared on 1/17/11

DISCLAIMER:

The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.

West Central Incorporated
2700 Trott Ave. SW, PO Box 897
Willmar, MN 56201