

MATERIAL SAFETY DATA SHEET

Equalizer

MSDS DATE: 1/4/10

SUPERSEDES: NONE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Equalizer

DISTRIBUTOR: D & M Chemical
ADDRESS: 112 Charron Rd., Moxee, WA 98936

INFOTRAC (Transportation/Spill Emergency) 1-800-553-5053

CHEMICAL NAME: Proprietary mixture
CHEMICAL FAMILY: Polymer blend
CHEMICAL FORMULA: Mixture

PRODUCT USE: Soil Wetter

SECTION 1 NOTES: None

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	% WT	SARA 313 REPORTABLE	OSHA			ACGIH		
				TWA	STEL	Ceiling	TWA	STEL	Ceiling
Ethylene oxide	75-21-8	<1 ppm	No	1 ppm	5ppm/15min	1 ppm			
2-Butoxyethanol	111-76-2	40-60	Yes	50 ppm skin		20 ppm			

SECTION 2 NOTES: Product does NOT contain any pesticides or pest control agents *See section 15

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation

POTENTIAL HEALTH EFFECTS

EYES: Vapors are irritating and may produce immediate pain, redness and tearing. Splashes can cause severe pain, stinging, swelling.

SKIN: May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.

INGESTION: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. Toxic! May cause systemic poisoning with symptoms paralleling those of inhalation.

INHALATION: Causes irritation to the respiratory tract. Symptoms may include sore throat, coughing, headache, nausea and shortness of breath. High concentrations have a narcotic effect

ACUTE HEALTH HAZARDS: None known beyond above

CHRONIC HEALTH HAZARDS: Prolonged or repeated exposures can cause damage to the liver, kidneys, lymphoid system, blood and blood-forming organs.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Persons with pre-existing skin disorders, eye problems, impaired liver, kidney, blood, respiratory or lymphoid system function may be more susceptible to the effects of the substance.

CARCINOGENICITY

OSHA: No **ACGIH:** Animal carcinogen with no known relevance to humans **NTP:** No **IARC:** No
OTHER: No

SECTION 3 NOTES: None

MATERIAL SAFETY DATA SHEET

Equalizer

MSDS DATE: 1/4/10

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: Product does NOT contain a pesticide or pest control product.

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

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

FLASH POINT:

F: 144

C: 62

METHOD USED:

PMCC

AUTOIGNITION TEMPERATURE: Unknown

F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH: 2 **FLAMMABILITY:** 2 **REACTIVITY:** 0 **OTHER:** -

HMIS HAZARD CLASSIFICATION

HEALTH: 2 **FLAMMABILITY:** 2 **REACTIVITY:** 0 **PROTECTION:** H

EXTINGUISHING MEDIA:

Water, carbon dioxide, dry chemical or foam

SPECIAL FIRE FIGHTING PROCEDURES:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

MATERIAL SAFETY DATA SHEET

Equalizer

MSDS DATE: 1/4/10

SUPERSEDES: NONE

HANDLING AND STORAGE: Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from oxidizing materials. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION : Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

RESPIRATORY PROTECTION: Not necessary unless ventilation is inadequate. Then use MSHA or NIOSH approved respirator, as appropriate.

EYE PROTECTION: Chemical splash goggles.

SKIN PROTECTION: Impermeable gloves, long sleeves, long pants, rubber apron

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash stations, safety showers

WORK HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

EXPOSURE GUIDELINES: TWA: 20 (ppm) from ACGIH (TLV) [United States] SKIN
TWA: 24 (mg/m³) from NIOSH
TWA: 5 (ppm) from NIOSH
TWA: 240 (mg/m³) from OSHA (PEL) [United States]
TWA: 50 (ppm) from OSHA (PEL) [United States] Consult local authorities for acceptable exposure limits.

SECTION 8 NOTES: None

MATERIAL SAFETY DATA SHEET

Equalizer

MSDS DATE: 1/4/10
SUPERSEDES: NONE

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless

ODOR: Solvent

PHYSICAL STATE: Liquid

pH AS SUPPLIED: Not applicable

pH (Other): Not measured

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): ~0.97

@

F: 68

C: 20

EVAPORATION RATE: Unknown

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): None known

INCOMPATIBILITY (MATERIAL TO AVOID): None known

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under fire conditions, oxides of carbon

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None known

SECTION 10 NOTES: None

MATERIAL SAFETY DATA SHEET

Equalizer

MSDS DATE: 1/4/10

SUPERSEDES: NONE

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not available

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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: Not regulated

ID NUMBER: Not regulated

PACKING GROUP: Not regulated

LABEL STATEMENT: 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):

This product contains no CERCLA listed chemicals.

Chemical Name	CAS Number	Range in %	RQ
Glycol ethers (fraction of product matching EPA definition)	Mixture	1.00-2.99	1
Glycol ethers (fraction of product matching EPA definition)	Mixture	10.00-19.99	1
Glycol ethers (fraction of product matching EPA definition)	Mixture	35.00-49.99	1
Residual ethylene oxide (typical)	75-21-8	<0.001	10
Phosphoric acid	7664-38-2	?	5000

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

MATERIAL SAFETY DATA SHEET

Equalizer

MSDS DATE: 1/4/10

SUPERSEDES: NONE

313 REPORTABLE INGREDIENTS:

CAS Number	Chemical Name	Concentration
Mixture	Glycol ethers (fraction of product matching EPA definition)	0.1-0.299
111-76-2	Ethylene glycol monobutyl ether	40-60

(Reportable as N230 Certain glycol ethers with a de minimus concentration of 1%)

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) 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:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

PREPARATION INFORMATION: Prepared on 1/4/10

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.

D & M Chemical
112 Charron Rd.
Moxee, WA 98936