

# SAFETY DATA SHEET

EARTH FORMULA#1

## Section 1: Chemical Product and Company Identification

### MANUFACTURER:

**Pioneer Research Corporation**  
**3110 N. 19th Ave**  
**Phoenix, AZ 85015**

**General Information Number: (602) 230-0012**

**Chemtel Emergency Number: (800) 255-3924**


DATE PREPARED: May 29, 2015 **REVISION DATE: July 18, 2019**

PRODUCT NAME: **EARTH FORMULA #1**

FORMULA: Preparation/Mixture

PRODUCT USE: Cleaning

## Section 2: Hazards Identification

**GHS Hazard Class** Eye Damage/Irritation Category 2.   
 Hazardous to the Aquatic Environment—Long Term (Chronic Hazard)-- Category 3  
 Acute Toxicity Oral -- Category 4

**Signal word: Warning**

### Hazard Statement:

H319 Causes serious eye irritation  
 H412 Harmful to Aquatic Environment—Long lasting effects  
 H302 Harmful if swallowed

### Precautionary Statements:

#### Prevention:

P280 Wear protective gloves/protective clothing/ eye protection/ face protection.  
 P273 Avoid release to the environment  
 P264 Wash hands thoroughly after handling  
 P270 Do not eat, drink, or smoke when using this product.

### Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P301 + P310 If SWALLOWED: Immediately call a Poison Control center/ doctor/ physician if you feel unwell.  
 P330 Rinse mouth

**Storage:** No Precautionary statement

**Disposal:** P510 Dispose of contents/ container in accordance with the waste disposal requirements of your country, state, or local authorities.

**Hazards not otherwise classified (HNOC) or not covered by GHS** - None

**HAZARD CLASSIFICATION:** Not classified as hazardous based on IATA, IMDG, and DOT.

**FIRE AND EXPLOSION:** Not considered flammable or combustible.

**POTENTIAL HEALTH EFFECTS:** <1 % of mixture consists of ingredients of unknown acute toxicity  
 Delayed Effects: Prolonged exposure to mists can cause lung irritation.

**APPEARANCE:** Green liquid

### NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Earth Formula #1	1	0	0	----

## Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EINECS/ELINCS	CANADA DSL
Water	>50	7732-18-5	231-791-2	Y
Glycol DPM	<10	34590-94-8	252-104-2	Y
Tall Oil	<10	61790-12-3	263-107-3	Y
MEA 99	<10	141-43-5	205-483-3	Y
Octylphenol Ethoxylate	>15	9036-19-5	618-541-1	Y
Tetrasodium EDTA	<5	64-02-8	200-573-9	Y

Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

## Section 4: First Aid Measures

### Description of First Aid Measures

Inhalation Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.  
 Skin Contact Immediately wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.  
 Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.  
 Ingestion If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Skin Contact defatting, and	Symptoms/Injuries after Inhalation	May cause respiratory tract irritation. May cause skin irritation. Symptoms may include redness, drying, cracking of the skin.
Symptoms/Injuries after Eye Contact pain, excess swelling.	Symptoms/Injuries after Eye Contact	May cause eye irritation. Symptoms may include discomfort or blinking and tear production, with possible redness and
Symptoms/Injuries after Ingestion vomiting.	Symptoms/Injuries after Ingestion	May be harmful if swallowed. May cause stomach distress, nausea, or

### Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

## Section 5: Fire-fighting Measures

<b>Suitable extinguishing media</b>	Use extinguishing media appropriate for surrounding fire.
<b>Special hazards arising from the substance or mixture</b> hydrocarbons, hydrocarbons, and soot	Product burns to form oxides of carbon (CO, CO <sub>2</sub> ), sulfur containing
<b>Protective actions fire-fighters</b>	Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.
<b>Further information</b>	None

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing vapors or mist.

**Environmental precautions**

None

**Methods and materials for containment and cleaning up**

In case of small spills, absorb with inert materials such as earth or dry sand. Place in a chemical waste container.

In case of large spills, dike the spill, if possible. Call emergency services. Absorb the chemical.

**Reference to other Sections** For personal protection reference section 8. For disposal reference section 13.**Section 7: Handling and Storage****Precautions for safe handling**

Keep from freezing, material stability may be affected.

Keep container closed when not in use.

Use only with adequate ventilation.

Do not inhale vapors.

Wear proper protective equipment when handling this material.

Avoid contact with skin, eyes, or clothing.

Wash hands and face after handling this material.

Keep out of reach of children.

Utilize chemical segregation.

**Conditions for safe storage, including any incompatibilities**

Do not store this material near strong bases.

Store upright in a cool, dry place.

Follow all applicable local regulations for handling and storage.

**Specific uses**

This product is intended for use as a cleaner.

**Section 8: Exposure Controls/Personal Protection****Control Parameters**

PRODUCT	COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL
	Glycol DPM	100 ppm TWA; 150 ppm STEL	100 ppm	-----
	MEA	7.5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup> STEL	6 mg/m <sup>3</sup> 8 hours	-----
	Tall Oil	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	-----

**Exposure controls****VENTILATION:** Always provide good general, mechanical room ventilation where this chemical/material is used.**SPECIAL VENTILATION CONTROLS:** Use this material inside totally enclosed equipment, or use it with local exhaust ventilation at points where vapors can be released into the workspace air.**RESPIRATORY PROTECTION:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) certified respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. No respiratory protection normally required. In case of mist, spray, or aerosol exposure wear suitable personal respiratory equipment.**PROTECTIVE GLOVES:** Wear chemical impervious gloves at all times while working with this product. Recommended glove types include: Lamine Film, Nitrile, or Tri-polymer.**EYE PROTECTION:** Safety Glasses, Chemical goggles, face shield.**SKIN PROTECTION:** Suitable protective clothing to prevent skin contact.**WORK/HYGIENE PRACTICES:** Avoid breathing vapor. Avoid contact with eyes. Wash hands after handling.**EXPOSURE LIMITS** Reference Section 2**OTHER EQUIPMENT:** Make safety shower, eyewash stations, and hand washing equipment available in the work area.

## Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Green
PHYSICAL STATE:	Liquid
ODOR:	Mild
ODOR THRESHOLD	No data available
PH	8.0 – 8.3
MELTING POINT/FREEZING POINT:	No data available
INITIAL BOILING POINT AND BOILING RANGE:	No data available
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY (Solid, gas)	No data available
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured
VAPOR PRESSURE	No data available
VAPOR DENSITY (AIR = 1)	No data available
RELATIVE DENSITY (@25 °C):	1.04
SOLUBILITY(IES)	Soluble
OXIDIZING PROPERTIES	No data available
PARTITION COEFFICIENT: n-octanol/water	No data available
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available

## Section 10: Stability and Reactivity

Reactivity:	Not reactive.
Chemical Stability:	Stable under recommended conditions.
Possibility of Hazardous Reactions:	Will not occur under normal temperatures and pressures.
	Conditions to Avoid: None
	Incompatibility (Materials to Avoid): None
	Hazardous Decomposition Products: None

## Section 11: Toxicological Information

**There is no toxicological information available for the product.**

	GHS Required Criteria Chemical Constituent	Toxicity Criteria	Toxicity Information	Comments
Acute Toxicity	LD50 (Oral/Rat):	1780 mg/kg		EDTA
	LD50 (Oral/Rat):	1089 mg/kg		MEA
	LC50 Inhalation/Rat	>1.3 mg/l		MEA
	LD50 Dermal Rabbit	2504 mg/kg		MEA
	LD50 (Oral/Rat):	5130 mg/kg		Dipropylene Glycol Monomethyl Ether
	LD50 Dermal Rabbit	9500 mg/kg		Dipropylene Glycol Monomethyl Ether
	LD50 (Oral/Rat):	>4000 mg/kg		Octylphenol Ethoxylate
	LD50 Dermal Rabbit	>300 mg/kg		Octylphenol Ethoxylate
	LD50 (Oral/Rat):	>10000 mg/kg	14 days	Tall Oil
	LD50 Dermal Rabbit	>2000 mg/kg	14 days	Tall Oil
	LD50 (Oral/Rat):	2000 – 5000 mg/kg		Octylphenol Ethoxylate

	LD50 Dermal Rabbit	1000 – 2000 mg/kg		Octylphenol Ethoxylate
Skin Corrosion/Irritation		Data not available		
Serious Eye Damage / Eye Irritation	Eye Rabbit	Moderate irritation		Octylphenol Ethoxylate
Respiratory or Skin Sensitization		Data not available		
Germ Cell Mutagenicity		Data not available		
Carcinogenicity	NTP	Not listed		
	IARC	Not listed		
	OSHA	Not listed		
Reproductive Toxicity		Data not available		
STOT -- Single Exposure		Data not available		
STOT – Repeated Exposure		Data not available		
Aspiration Hazard		Data not available		

STOT = Specific Target Organ Systemic Toxicity

## Section 12: Ecological Information

Toxicity:	Acute LC50 for Fathead Minnow (Pimephales Promelas) is 161 mg/l	MEA
	Acute LC50 for Water Flea (Daphnia Magna) is 65 mg/l	MEA
	LC50 (Fathead Minnow) 96hr = 1.4-1.8 mg/l	Octylphenol Ethoxylate
	EC50 (Daphnia Magna) 48hr, Immobilization = 1.0-8.4 mg/l	Octylphenol Ethoxylate
	EC50, Pseudomonas putida: >10000 mg/l 16 hr --	Tall Oil
	EL50, Selenastrum capricornutum: > 1000 mg/l 72hr growth rate; OECD 201	Tall Oil
	EL50, Daphnia magna: > 1000 mg/l 48 hr OECD 202 – LL50 Danio rerio: > 10000 mg/l 96 hr	Tall Oil
Persistence and degradability:	No information is available.	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

## Section 13: Disposal Considerations

**Waste from residues/unused products:** Follow the waste disposal requirements of your country, state, or local authorities.

**Contaminated packaging:** Contaminated packaging material should be disposed of as stated above for residues and unused product.

**Rinsate:** Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

## Section 14: Transport Information

**DOT TRANSPORT:** Not Regulated

**ADR = International Carriage of Dangerous Goods by Road** Not Regulated

**RAIL TRANSPORT:** Not Regulated

**SEA TRANSPORT:** IMDG Not Regulated

**AIR TRANSPORT:** IATA/ICAO Not Regulated

## Section 15: Regulatory Information

### TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are listed on the TSCA Inventory.

### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

### CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are:

This product contains <0.1% of Diethanolamine which is known to The State of California to cause cancer.

This product contains less than 0.001% of Ethylene Oxide which is known to the State of California to cause cancer and reproductive harm.

### STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	Dipropylene Glycol Monomethyl Ether
Massachusetts's hazardous substance(s):	Dipropylene Glycol Monomethyl Ether
Pennsylvania hazardous substance code(s):	Dipropylene Glycol Monomethyl Ether, Monoethanolamine
New Jersey	Dipropylene Glycol Monomethyl Ether
Illinois	Dipropylene Glycol Monomethyl Ether
Michigan	Dipropylene Glycol Monomethyl Ether
Minnesota	Dipropylene Glycol Monomethyl Ether

### CANADA:

This SDS contains all of the information required by the Controlled Products Regulations (CPR).

### WHMIS-INFORMATION:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, Current to February 20, 2012. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined to not be WHMIS controlled.

### EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

## Section 16: Other Information

Initial issue date:	May 29, 2015
Final revision date:	Sept 15, 2018
Revision Number:	0
Revision explanation	Initial version
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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