

SAFETY DATA SHEET

INpHILTRATE Max

MSDS DATE: 1/8/13
SUPERSEDES: 9/5/12

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: INpHILTRATE Max

MANUFACTURED FOR: Growing Solutions, Inc.
ADDRESS: 21719 S. Center Ave., Unit D
New Lenox, IL 60451

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

CHEMICAL FAMILY: Surfactant blend
CHEMICAL FORMULA: Mixture

PRODUCT USE: Soil Wetter

SECTION 1 NOTES: None

SECTION 2: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT/% VOL</u>	<u>SARA 313 REPORTABLE</u>	<u>TWA</u>	<u>OSHA STEL</u>	<u>Ceiling</u>	<u>TWA</u>	<u>ACGIH STEL</u>	<u>Ceiling</u>
Ethylene Oxide	75-21-8	<1 ppm	No	1 ppm			1 ppm		

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Eyes, skin, inhalation, ingestion

POTENTIAL HEALTH EFFECTS

- EYES:** May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.
- SKIN:** Brief contact is not irritating. Prolong contact, as with clothing wetted with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact.
- INGESTION:** Product not volatile at ambient temperatures. Vapors or mist in high concentrations, as generated from spraying or heating in an enclosed space, may cause minimal irritation.
- INHALATION:** If more than several mouthfuls are swallowed, abdominal discomfort, nausea and diarrhea may occur.

ACUTE HEALTH HAZARDS: None known

CHRONIC HEALTH HAZARDS: None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

CARCINOGENICITY

OSHA: No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** No

SECTION 3 NOTES: None

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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: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT:

F: >200

C: >93

METHOD USED: PMCC

HMIS HAZARD CLASSIFICATION

HEALTH:
1

FLAMMABILITY:
1

REACTIVITY:
0

OTHER:
-

EXTINGUISHING MEDIA: Use water spray, dry chemical, or Carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-container breathing apparatus and avoid breathing fumes or dust.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known.

HAZARDOUS DECOMPOSITION PRODUCTS: Under fire conditions will form oxides of carbon

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Sweep up material and reuse if not contaminated. If contaminated, place material in a suitable container for proper disposal. Flush spill area with water, absorb and place in same containers with other material.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in original container only. Keep container tightly closed. Do not allow water to be introduced into the contents of this container. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

OTHER PRECAUTIONS: Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment washwaters or spray waste.

SECTION 7 NOTES: None

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION : Provide local exhaust ventilation to control vapours/mists.

RESPIRATORY PROTECTION: Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

EYE PROTECTION: Safety glasses with side-shields.

SKIN PROTECTION: Chemical resistant protective gloves. Body protection must be chosen based on level of activity and exposure.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear protective clothing as necessary to minimize contact.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing.

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: slightly milky, cloudy

ODOR: mild, product

PHYSICAL STATE: Liquid

pH AS SUPPLIED: Not applicable

pH (Other): 5 - 7.5 (2.5 %(m))

BOILING POINT:

F: >300

FREEZING POINT:

C: approx. -4 °C

VAPOR PRESSURE (mmHg): < 0.1 mmHg

@ C: 25 °C

SPECIFIC GRAVITY (H₂O = 1): 1.03

@ C: 25 °C

SOLUBILITY IN WATER: Soluble

PERCENT SOLIDS BY WEIGHT: >99%

PERCENT VOLATILE: <1%

VISCOSITY: 450 mPa.s

@ C: 25 °C

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable Unstable

CONDITIONS TO AVOID (STABILITY): This product is stable when handled under the stated conditions

INCOMPATIBILITY (MATERIAL TO AVOID): This product may react violently with isocyanates. Avoid strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Stable except when exposed to the above materials or fire conditions.

HAZARDOUS POLYMERIZATION: Will NOT occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute toxicity

Oral:

LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant (Draize test)

Eye irritation :

rabbit: non-irritant (Draize test)

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Environmental fate and transport

Biodegradation:

Test method: OECD 301B; ISO 9439; 92/69/EEC, C.4-C

Method of analysis: CO₂ formation relative to the theoretical value

Degree of elimination: > 60 % (28 d)

Evaluation: Readily biodegradable.

Environmental toxicity

Acute and prolonged toxicity to fish:

golden orfe/LC50 (96 h): > 100 mg/l

Acute toxicity to aquatic invertebrates:

EC50 (48 h): > 100 mg/l

Toxicity to aquatic plants:

EC50 (72 h): > 100 mg/l

Toxicity to microorganisms:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from products of a similar structure and composition.

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of in accordance with national, state and local regulations.

It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

RCRA HAZARD CLASS: None

SECTION 13 NOTES: None

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Not classified as a dangerous good under transport regulations

WATER TRANSPORTATION

Not classified as a dangerous good under transport regulations

AIR TRANSPORTATION

Not classified as a dangerous good under transport regulations

OTHER AGENCIES:

Not classified as a dangerous good under transport regulations

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): released / listed

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not hazardous

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302/304 Extremely Hazardous Substances: Residual ethylene oxide (typical) CAS:75-21-8 <1 ppm TPQ:1000 RQ:10

311/312 HAZARD CATEGORIES: See above

313 REPORTABLE INGREDIENTS: See above

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).

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

PREPARATION INFORMATION: Prepared 1/8/13

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.

Growing Solutions, Inc.
21719 S. Center Ave., Unit D
New Lenox, IL 60451