

1. Identification

Product Name : Pervaide Non-Ionic Soil Penetrant (New Zealand)

Synonyms : None

Product Use : Non-Ionic surfactant, soil penetrant

Manufacturer/Supplier : Ag Concepts Corp

Address : 439 E Shore Dr. Eagle, ID 83616

General Information : 208-388-1131

Transportation Emergency Number

United States: 888-388-1131

New Zealand Distributor

Distributor GROlogic Ltd

Address : Unit 10, 1000 V St, New Zealand

General Information : 0800 11 44 22

Transportation Emergency Number 0800 11 44 22

2. Hazard Identification

Hazard Pictogram :



Signal Word : Warning

Skin Irritation: H315 - Causes skin irritation

Eye Irritation : H319 - Causes serious eye irritation

Acute Toxicity Oral : Not hazardous by ingestion

Acute Toxicity Dermal : Not hazardous by skin absorption

Acute Toxicity Inhalation : Not hazardous by inhalation

Hazard Categories : Serious Eye Damage/Eye Irritation - 2A

Precautionary Statements : P264 - Wash skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+352 - If on skin wash with plenty of soap and water

P321 - Specific treatment(see ... on this label)

P332+P313 If SKIN irritation occurs: Get medical advice/attention

P305+351+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

P362 - Take off contaminated clothing before reuse

P501 - Dispose of contents/containers to ... in

accordance with local/state/national regulations

3. Composition/Information on Ingredients

Substance/mixture : Mixture

Component	CAS Number	Weight %
Nonylphenol, ethoxylated :	127087-87-0	>= 16.0%
Sodiumlignosulphonate :	8061-51-6	< 1.00%
Thiamine :	67-03-8	< 1.00%
Riboflavin :	83-88-5	< 1.00%
Silicon Emulsifier :	Propietary	< 1.00%
Ethylenediamineacetic Acid :	13235-36-4	< 1.00%
Citric Acid :	77-92-9	< 1.00%

4. First Aid Measure

Eye : IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Skin : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Call posion control center or doctor if you feel unwell.

Ingestion : Rinse mouth. Do NOT induce vomiting. Call posion control center or doctor for further treatment advice if you feel unwell.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call posion control center or doctor for further treatment advice if you feel unwell.

Indication of Immediate Medical Attention and Special Treatment Needed Treat symptomatically

Indication of Immediate Medical Attention and Special Treatment Needed

Potential acute health effects

Eye contact : Causes serious eye irritation

Inhalation : No known significant effects or hazards

Skin Contact : No known significant effects or hazards

Ingestion : Irritating to mouth, throat and stomach

5. Fire Fighting Measures

Extinguishing Media : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.

Specific Hazards Arising from the Chemical : May produce carbon monoxide, carbon dioxide, low molecular weight hydrocarbons and/or toxic fumes under fire conditions

Special Fire Fight Proc : Evacuate nonessential personnel. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers exposed to fire.

6. Accidental Release Measures

Personal Precautions : Evacuate unnecessary personnel

Protective Equipment : Equip cleanup crew with proper protection

Emergency Procedures : Contain spill. Do not allow spilled product to contaminate water supplies, lakes, streams, ponds, or drains.

Methods and Materials for Containment and Cleanup : Collect spilled liquid and reuse, if uncontaminated. If contaminated, cover with inert absorbent material, collect and place in suitable containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep containers closed when not in use. Do not eat, drink, or smoke when using this product.

Conditions for Safe Storage : Keep out of reach of children. This product may freeze at temperatures less than 32 degrees F. Thawing occurs readily at temperatures greater than 32 degrees F. Do not store at temperatures greater than 110 Degrees F. Do not store in direct sunlight.

8. Exposure Controls/Personal Protection

TLV/PEL : Not established for mixture

Appropriate Engineering Controls : Local exhaust is sufficient

Controls :

Personal Protective Equipment : Avoid all unnecessary exposure.

Equipment :

Hand Protection : Wear protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection Wear suitable protective clothing
Respiratory Protection : Wear appropriate mask
Other Information : Do not eat, drink or smoke during use.

9. Physical and Chemical Properties

Physical State: Liquid
Appearance: Clear yellowish liquid, slight yeast odor
Flash Point, °F: Not flammable
Boiling Point, °F: Not available
Melting Point (Freezing Point), °F : Not available
Vapor Pressure, mm Hg @ 20 °C : Not established
Vapor Density : Not established
Solubility in Water : Dissolves
Molecular Formula : Not applicable, formulated mixture
Density, g/mL @ 25 °C : 1.000 to 1.020
pH : 4 to 5
Flammable Limits : No information found
Auto-Ignition Temperature : Not applicable
Decomposition Temperature : Not established

10. Stability and Reactivity

Reactivity : Normally Stable
Chemical Stability : Stable
Hazardous Decomposition Products : May emit oxides of carbon under fire conditions
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid direct sunlight and temperatures below 32°F and above 110°F.
Incompatible Materials : None known

11. Toxicology Information

Acute Toxicity : Not established for mixture.
Ingredient - Nonylphenol, ethoxylated (127087-87-0):
Acute Toxicity (Oral): Category 4
Acute Toxicity (Inhalation) : Category 4
Eyes - Severe Irritant: Rabbit - Risk of serious damage to eyes - Cat 1
Skin - Irritating to Skin : Rabbit - Irritating to skin

Ingredient - Sodium lignosulfonate (8061-51-6):
LD50/mouse/oral 6,030 mg/kg

STOT RE: May cause damage to blood and liver

Acute Potential Health Effects

Skin : May cause skin irritation

Eyes : May cause eye irritation.

Inhalation : May cause respiratory tract irritation.

Ingestion : May cause gastrointestinal tract irritation. May affect behavior/central nervous system (somnolence, muscle weakness, coma,

Chronic Potential Health Effects

Inhalation : Prolonged or repeated inhalation may affect respiration, liver, and blood.

Ingestion : Prolonged or repeated ingestion may cause ulceration of stomach and colon, and skin lesions. It may also affect the liver (impaired liver function tests), kidneys, and blood.

Ingredient - Thiamine :

LD50/oral/rat: 3,710 mg/kg

LD50/oral/mouse: 8,224 mg/kg

Ingredient - Riboflavin :

LD50/oral/rat: 10 g/kg

Ingredient - Ethylenediamineacetic Acid (13235-36-4):

Acute Toxicity (Oral) : Category 4

Acute Toxicity (Inhalation) : Category 4

Serious eye damage : Category 1

STOT RE Category 2 - Inhalation

LD50/oral/rat: <2,000 mg/kg Estimated

LD50/dermal/rabbit: >5,000 mg/kg Estimated

Skin : Essentially non-irritating

Eyes : May cause severe irritation. Chemical burns may occur. Category 1

STOT RE: Based on information for similar material, in animals, effects have been reported on Respiratory

Teratogenicity : EDTA and its sodium salts have been reported to cause birth defects in laboratory animals only at exaggerated doses that were toxic to the mother. These effects are likely associated with zinc deficiency due to chelation.

Ingredient - Citric Acid (77-92-9):

Eye irritation : Category 2 - Causes serious eye irritation
LD50/oral/mouse: 5,400 mg/kg OECD 401
LD50/oral/rat: 11,700 mg/kg OECD 401
LD50/dermal/rat: 2,000 mg/kg OECD
LD50/i.p./rat: 725 mg/kg OECD
LD50/i.p./mouse : 940 mg/kg OECD
Eye Irritation/rabbit : Irritating to eyes

Skin Corrosion/irritation Causes skin irritation (pH 4 to 5)

Serious eye : Causes eye irritation (ph 4 to 5)
damage/irritation

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ : Evaluation of available data suggests that this material is not an
toxicity (single exposure) STOT-SE toxicant

Specific target organ : For this family of materials: In animals, effects have been
toxicity reported on the following organs: Kidney. Liver.

(repeat exposure)

Teratogenicity : For this family of materials: Has been toxic to the fetus in
laboratory animals at does toxic to the mother. Did not cause
birth defects in laboratory animals.

Aspiration Hazard : Based on physical properties, not likely to be an aspiration hazard

Other Hazards : None currently known

12. Ecological Information

Ingredient - Nonylphenol, ethoxylated :

Toxicity

Acute toxicity to fish : For this family of materials: Material is moderately toxic to
aquatic organisms on an acute basis (LC50/EC50 between 1 and
10 mg/L in the most sensitive species tested)

For this family of materials: LC 50, Pimephales promelas
(flathead minnow), 96 Hour, 3.8 - 6.2 mg/l, OECD Test Guideline
203 or Equivalent

Acute toxicity to : For this family of materials: LC 50, Daphnia magna (Water Flea),
aquatic invertebrates 48 Hour, 9.3 - 21.4 mg/l, OECD Test Guideline 202 or Equivalent

Toxicity to bacteria : For this family of materials: IC50, Bacteria, 16 Hour, >1,000 mg/l

Persistence and degradability

Biodegradability : For this family of materials: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Biodegradation : <60%

Exposure time : 28 D

Method : OECD Test Guidelines 301 B or Equivalent

Theoretical Oxygen Demand : 2.15 - 2.25 mg/mg

Chemical Oxygen Demand : 2.09 - 2.25 mg/mg

Persistence and degradability

Partition coefficient: n-octanol/water(log Pow): 2.1 - 3.4 Calculated

Bioconcentration factor (BCF): 5.9-48 Fish Estimated.

Persistence and degradability

No relevant data found

Ingredient - Ethylenediamineacetic Acid (13235-36-4):

Acute toxicity to fish : LC50/Bluegill Sunfish/Static/96 hr = 1,592 mg/l
LC50/EC50/EL50/LL50 > 100 mg/L in most sensitive species tested.

Acute toxicity to aquatic invertebrates: EC50/Water Flea/24 hr/OECD Test Guideline 202 = 610 - 1,033 mg/l

Acute toxicity to algae/aquatic plants: EC50/green algae/static/72 hr/OECD Test Guideline 201: Growth rate inhibition > 100 mg/l

Chronic toxicity to fish: NOEC/Zebra Fish/flow-through test/35 d >25.7

Chronic toxicity to aquatic invertebrates: NOEC/Water Flea/semi-static/21 d/number of offspring = 25 mg/l

Persistence and degradability

Biodegradability : Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability). 10 Day Window: Not applicable

Biodegradation : 90-100%

Exposure time : 28 D

Method : OECD Test Guidelines 302A or Equivalent
10 Day Window: Fail

Biodegradation : 10%

Exposure time : 28 D

Method : OECD Test Guidelines 301E or Equivalent

10 Day Window: Not applicable

Biodegradation : 0-10%

Exposure time : 28 D

Method : OECD Test Guidelines 302B or Equivalent

10 Day Window: Fail

Theoretical Oxygen Demand : 1.05 mg/mg

Mobility in soil

Potential for mobility in soil is low (Koc between 500 and 2,000)

Partition coefficient (Koc) : 1,046 Estimated

Ingredient - Citric Acid (77-92-9):

Acute toxicity to fish : LC50/Golden orfe/Static/48 hr = 440 mg/l

Acute toxicity to aquatic invertebrates: LC50/Water Flea/static/24 hr = 1,535 mg/l

Acute toxicity to algae: EC50/Green algae/static/168 hr = 425 mg/l

Acute toxicity to bacteria: Pseudomonas putida/16 hr > 10,000 mg/l

Biodegradation : 97%

Exposure time : 28 D

Method : OECD Test Guidelines 301B or Equivalent

Readily Biodegradable

Biodegradation : 100%

Exposure time : 19 d

Method : OECD Test Guidelines 301E or Equivalent

Readily Biodegradable

Theoretical Oxygen Demand : 526 mg/mg

Theoretical Oxygen Demand : 728 mg/mg

13. Disposal Considerations

Waste Disposal Method : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment

14. Transportation Information

UN Proper Shipping Name : Not regulated by DOT, IATA or IMDG

Transport Hazard Class : None

UN Identification Number : None

Packaging Group : None

Environmental Hazards : No information found.

Transport in Bulk : No information found.

Special Precautions for Transportation No information found.

:

Freight Classification : Class 60

15. Regulatory Information

HSNO Approval Number : HSR002571
HSNO Group Standard : Fertilisers (Subsidiary Hazard) Group Standard 2017

16. Other Information

Other Information : None

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