

Material Safety Data Sheet

MSDS ID: AP-104

***** Section 1 - Chemical Product and Company Identification *****

Product Name: UPGRADE®

Product Use: UPGRADE® is a polymer blend slow release agent for coating of solid fertilizers

Manufacturer Information

Atlantic & Pacific Trading Corp., Inc. (APTC) 625 Plumas Street Reno, NV 89509	Emergency & Technical Information: 336-260-3121 Alternate number: 870-829-1202
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General Comments

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving the product.

***** Section 2 - Hazards Identification *****

Emergency Overview

Exposure to fine spray & mist may cause irritation to eyes, nose and throat.

Potential Health Effects: Eyes

Based on OSHA Hazard Communication in 29 CFR, this product may cause eye irritation.

Potential Health Effects: Skin

Harmful effects are not expected from short periods of contact. Mild irritation may occur with prolonged contact with the product.

Potential Health Effects: Ingestion

May be harmful if swallowed.

Potential Health Effects: Inhalation

Vapors and mists from the product may cause reversible respiratory irritation. Avoid breathing vapors.

HMIS Ratings: **Health: 1** **Fire: 1** **Reactivity: 0** **Pers. Prot.: B**
 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

***** Section 3 - Composition / Information on Ingredients *****

CAS #	Component	Percent
Proprietary	Perpoxylated Phenol Polymer Resin Mixture	100%

Component Information/Information on Non-Hazardous Components

All components are listed on TSCA 40 CFR 700. OSHA Hazard Communication may classify this product as an eye irritant, and hazardous substance as defined in 29 CFR 1910.1200. Those needing emergency information on proprietary components in this product should call the emergency number in Section 1 of this MSDS.

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*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

First Aid: Skin

Exposed skin should be thoroughly rinsed with fresh water. Seek medical attention if irritation persists. Wash thoroughly after handling. Wash any contaminated clothing separately.

First Aid: Ingestion

If large quantities are ingested, DO NOT INDUCE VOMITING. If patient is fully conscious, give two glasses of water. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

First Aid: Inhalation

Move patient to fresh air. If discomfort persists, seek medical attention.

Note to physician:

Call emergency number for additional information on the chemistry of the product if needed.

*** Section 5 - Fire Fighting Measures ***

Flash Point: ~200°F	Method Used: PMCC (Pensky Marten)
Upper Flammable Limit (UFL): Not determined	Lower Flammable Limit (LFL): Not determined
Auto Ignition: Not determined	

General Fire Hazards

During manufacturing use, take care to avoid sparks, open flames or static electricity. Plan your production around this potential hazard.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide

Extinguishing Media

Dry chemical, foam, carbon dioxide, and water fog.

Fire Fighting Equipment/Instructions

Firefighters should wear self-contained air supplied breathing apparatus in enclosed areas or in areas of heavy smoke or fumes. Dike and collect water used to fight fire.

NFPA Ratings:

Health: 1

Fire: 1

Reactivity: 0

Pers. Prot.: B

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Wear protective equipment. Contain spill. Do not allow material to run into sewers and drains.

Environmental Precautions

Insoluble in water and will float on water surface. If possible skim or vacuum product from the surface of the water. Report any spills per regulatory requirements. Dike area of spill to prevent spreading and pump liquid to salvage tank. Prevent from entering sewers and/or drains. Should this product enter sewers or drains, it should be pumped out into an open vessel. Emergency services may need to be called to assist in this operation.

Clean-Up Procedures

Absorb spill with inert material. Shovel material into appropriately labeled container for disposal. Dispose of in a manner consistent with federal, state and local laws. This product is insoluble in water. This product is insoluble in water and will float Flush trace residuals to the drain for normal biological wastewater treatment.

Evacuation Procedures

Evacuate unnecessary personnel. .

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Special Procedures

No special precautions beyond routine prudent safe handling of chemical substances are necessary. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

*** Section 7 - Handling and Storage ***

Handling Procedures

Do not get in eyes, on skin or on clothing. Eliminate all sources of ignition., Use with adequate ventilation. Never use pressure to empty Drums. Wash thoroughly after handling. Remove contaminated clothing and wash them before reuse

Storage Procedures

Keep containers closed. Store in a cool, dry place. Avoid freezing. Store at ambient temperatures.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

Naphthalene	TWA, OSHA	50.0mg/m ³
	STEL, OSHA	75.0 mg/m ³ , 15ppm
	TWA (Skin), AGCIH	10.0 ppm
	STEL, AGCIH	15ppm
1,2,4-Trimethylbenzene	TWA OSHA	125.0 mg/m ³ , 25ppm
	Twa, ACGIH	25.0 ppm

Provide for protection of employees and local residents. In the event of fire, evacuate residents who are downwind of fire. Prevent unauthorized entry to the fire area. Have a medical check made of employees that may have been exposed to fumes.

Engineering Controls

This is a combustible product. When manufacturing, use spark-free mechanical ventilation where possible. If not, use PPE (Personal Protective Equipment).

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE): Eyes/Face

Use appropriate PPE. Splash Goggles and/or face shield is recommended.

Personal Protective Equipment: Skin

Use neoprene gloves and wash clothing, separately, afterwards.

Personal Protective Equipment: Respiratory

Use appropriate respiratory equipment recommended by NIOSH.

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*** Section 9 - Physical & Chemical Properties ***

Appearance:	Amber	Odor:	Aromatic
Physical State:	Liquid	pH:	<11 (When in water)
Vapor Pressure:	Not determined	Vapor Density:	Not determined
Boiling Point:	Not determined	Melting Point:	Not determined
Solubility (H2O):	Insoluble	Specific Gravity:	0.95-1.0
		Flash Point:	~200°F (PMCC)

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under usual application conditions.

Chemical Stability: Conditions to Avoid

Stable under normal conditions.

Incompatibility

Strong Oxidizing agents, acids.

Hazardous Decomposition

Carbon monoxide, Carbon dioxide, Nitrogen Oxides.

Hazardous Polymerization

Hazardous polymerization will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

Component Acute Toxicity-LD50/LC50

Heavy aromatic Naphtha:	Swallowing	LD ₅₀ Rats:	13.3 ml/kg
	Skin absorption	LD ₅₀ Rabbit:	>5ml/kg
	Inhalation	LD ₅₀ Rats:	>580 ppm (Exposure time: 4 hours)

Component Carcinogenicity

Assessment:

In this product is a trace amount of propylene oxide. Propylene oxide is classified by the IARC as Group 2B (human inadequate evidence, animal sufficient evidence; by NTP as reasonably anticipated to be a human carcinogen, and by ACGIH as an animal carcinogen.

In a two-year inhalation study, the NTP found there was clear evidence of carcinogenic activity of naphthalene in male and female rats based on increased incidences of respiratory epithelial adenoma and olfactory epithelial neuroblastoma of the nose. Naphthalene is classified by the IARC as Group 2B (human inadequate evidence, animal sufficient evidence).

*** Section 12 - Ecological Information ***

Ecotoxicity

Component Analysis - Ecotoxicity - Aquatic Toxicity

No information is available.

Environmental Fate

No information is available.

***** Section 16 - Other Information *****

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

MSDS History

This is a revised MSDS. This MSDS conforms to ANSI 400 Standards proposed in 2004 for 2007 implementation.

This is the end of MSDS ID: XT-104