



Safety Data Sheet

No. AP-104

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

Product Name : **UpGRADE**

Product Use : **Polymer Blend Coating Agent for Solid Fertilizers**

Synonyms : **None**

Manufacturer/Supplier : **Atlantic-Pacific Agricultural Company, Inc.**
Address : **427 Ridge Street, Reno, NV 89509**
Corporate Telephone Number : **941-474-8382**
Emergency Telephone Number : **336-260-3121**

*** Section 2 - Hazards Identification ***

Emergency Overview

Appearance : liquid
Color : dark amber
Odor : aromatic
Flammable liquids : Category 4
Eye irritation : Category 2A
Carcinogenicity : Category 2
Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)
Aspiration hazard : Category 1
Acute aquatic toxicity : Category 2
Chronic aquatic toxicity : Category 2



Hazard Pictograms :
Signal Word : **DANGER**

Hazard Statements :
H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness
H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements :
Prevention:
P201 Obtain special instructions before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.



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Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P331 Do NOT induce vomiting.

Potential Health Effects

- Inhalation : Inhalation of aerosols may cause irritation to mucous membranes.
- : Thermal decomposition can lead to release of irritating gases and vapors.
- : Contains organic solvents.
- : May be fatal if swallowed and enters airways.
- : Inhalation may cause central nervous system effects.

- Skin : Causes mild skin irritation.
- Eyes : Causes serious eye irritation.
- Ingestion : May cause irritation of the mucous membranes.
- : May be fatal if swallowed and enters airways.

- Aggravated Medical Condition : None known.
- Symptoms of Overexposure : No information available.

Carcinogenicity:

- IARC** : Group 2B: Possibly carcinogenic to humans Naphthalene 91-20-3
- OSHA** : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- NTP** : Reasonably anticipated to be a human carcinogen Naphthalene 91-20-3
- : Confirmed animal carcinogen with unknown relevance to humans.
- ACGIH** : Solvent naphta (petroleum), heavy arom. 67472-94-5

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

CAS #	Classification	Component	Percent
Proprietary	Eye irrit. 2A; H319	Proprietary surfactant blend	50-70
64742-94-5	Flam, Liq. 4; H227 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	Solvent naphta (petroleum, heavy arom.	30-50
95-63-6	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 Aquatic Chronic 2; H411	1,2,4-trimethylbenzene	5-10
91-20-3	Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 1	Naphthalene	1 - 5

For the full text of the H-Statements mentioned in this Section, see Section 16.



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

General advice	:	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. If breathed in, move person into fresh air.
Inhalation	:	Consult a physician after significant exposure.
Skin contact	:	Take off contaminated clothing and shoes immediately. Wash the skin immediately with soap and water. If skin irritation persists, call a physician.
Eye contact	:	Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Obtain medical attention.
Ingestion	:	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention.

Notes to physician

Symptoms	:	No information available.
Risks	:	No information available.
Treatment	:	No information available.

** Section 5 - Fire Fighting Measures ***

Suitable extinguishing media	:	Alcohol-resistant foam Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-fighting / Specific hazards arising from the chemical	:	Treat as oil fire. Water spray may be ineffective unless used by experienced firefighters. Do not allow run-off from fire-fighting to enter drains or water courses.
Special protective equipment for fire fighters	:	In the event of fire, wear self-contained breathing apparatus.
Combustion products	:	Carbon oxides.
Further information.	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons, in case of fire, cans should be stored separately in closed containers. See also Section 9. Physical and Chemical Properties: Safety Data



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

- Personal Precautions** : Use personal protective equipment.
Ensure adequate ventilation.
- 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 and follow 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 put into an open vessel. Emergency services may need to be called to assist in this operation.
- Methods for Containment/Cleanup.** : Wear protective equipment. Neutralize product with acid. Soak up with inert material (e.g. silica gel, acid binder, sand, universal binder, sawdust. Keep in suitable, closed-labeled containers for disposal.
- Evacuation Procedures** : Evacuate unnecessary personnel.

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

- Handling Procedures**
- Advice on safe handling : For personal protection, see Section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Avoid contact with skin and eyes.
- Advice on protection against fire and explosion : Avoid formation of aerosol.
Keep away from sources of ignition – No smoking. No sparking tools should be used.
Take measures to prevent the buildup of electrostatic charge.
- Storage**
- Requirements for storage areas And containers : Prevent unauthorized access.
No smoking.
Keep containers labeled and tightly closed in a dry and well ventilated place.
- Other data : No decomposition if stored and applied as directed.



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

Ingredients	CAS-No.	Value	Control parameters	Update	Basis
Solvent napta (petroleum), heavy arom.	6742-94-5	TWA	500 ppm 2000 mg/m3	2007-01-01	OSHA Z-1
		TWA	200 mg/m3	2010-03-01	ACGIH
		Further Information:	Central Nervous System Impairment. Upper Respiratory Tract irritation. Skin irritant. Application restricted to conditions in which there are negligible aerosol exposures. A3: Confirmed animal carcinogen with unknown relevance to humans. Skin: Danger of cutaneous absorption. Varies: varies as total hydrocarbon vapor.		
		TWA	400 ppm 1,600 ppm	1989-01-19	OSHA P0
1,2,4-Trimethylbenzene	95-63-6	TWA	25 ppm 1,600 mg/m3	2005-09-01	NIOSH REL NIOSH REL
				2005-09-01	
		Further information:	Hemimellitene is a mixture the 1,2,3-isomer with up to 10% related aromatics such as the 1,2,4-isomer.		
Naphthalene	9120-3	TWA	10ppm	2013-03-01	ACGIH
		Further Information	Hematologic effects Upper Respiratory Tract irritation Eye damage (): Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC) A4: Not classifiable as a human carcinogen Skin: Danger of cutaneous absorption.		
		STEL	15 ppm	2013-03-1	ACGIH
		Further Information	Hematologic effects Upper Respiratory tract irritation Eye irritation Eye damage (): Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC) A4; Not classifiable as a human carcinogen Skin: Danger of cutaneous absorption.		
		TWA	10 ppm 50mg3	2005-09-01	NIOSH REL
		ST	15 ppm 75 mg/m3	2005-09-01	NIOSH REL
		TWA	10 ppm 50mg/m3	1997-08-04	OSHA Z-1
		Further information	(b): the value in mg/m3 is approximate		
		TWA	10 ppm 50 mg/3	1989-01-19	OSHA P0
		STEL	15 ppm 75 mg/m3	1981-01-19	OSHA P0

STEL : Short Term Exposure Limit

TWA: Time Weighted Average



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Engineering measures

Effective exhaust ventilation system : Ensure that eyewash stations and safety showers are close to workstation location.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection : Glove material: For prolonged or repeated contact use protective gloves.
Glove material: Protective gloves complying with EN 374.

Skin and body protection : Protective suit

Respiratory protection : In the case of vapor or aerosol formation use a respirator with an approved filter.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Appearance

Form : Liquid
Color : Dark amber
Odor : Aromatic
Odor Threshold : No data available

Safety Data

pH : 11-13 @5%solution
Melting point/freezing point : No data available
Boiling point/range : No data available
Flash Point : 63°C; Method: Pensky-Martens closed cup
Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
Lower explosion limit : No data available
Vapor pressure : No data available
Relative density : 1.0 at 25°C
Water solubility : Insoluble
Solubility in other solvents : No data available
Partition coefficient: N- : No data available
Auto-ignition temperature : >496°C
Decomposition temperature : No data available



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Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance/mixture is not classified as oxidizing.

This Safety Data Sheet only contains information relating to safety and does not replace any product information or product specification.

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

Materials to avoid	:	None known.
Chemical Stability	:	Stable under recommended storage conditions.
Hazardous decomposition Product	:	No hazardous decomposition products are known.
Thermal decomposition	:	No data available
Reactivity	:	Stable under normal conditions
Hazardous reactions	:	No dangerous reaction known under condition of normal use.
Conditions to avoid	:	Heat and sparks.

*** Section 11 - Toxicological Information ***

Product Information

Toxicology assessment

Further information	:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin. Suspected of causing cancer. May cause drowsiness or dizziness.
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Test Results

Acute oral toxicity	:	Acute toxicity estimate: >5,000 mg/kg Method: Calculation method.
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Acute inhalation toxicity	:	Acute toxicity estimate: >40mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation
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Carcinogenicity:

IARC	:	Group 2B: Possibly carcinogenic to humans: Naphthalene 91-20-3.
OSHA	:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	:	Reasonably anticipated to be a human carcinogen. Naphthalene 91-20-3.
ACIGH	:	Confirmed animal carcinogen with unknown relevance to humans: Solvent naphtha (petroleum) heavy arom. 64742-94-5

Toxicology Data for the ingredients

Toxicology Assessment

Component Naphthalene

CMR effects	:	Carcinogenicity: Limited evidence of a carcinogenic effect.
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Test result

Component: Proprietary surfactant blend component

Acute oral toxicity	:	LD50: Species: rat No data available
Eye irritation	:	Result; Irritating to eyes.



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Component: Solvent naphtha (petroleum) heavy arom.

Acute oral toxicity : LD50: >6,000 mg/kg
Species: rat

Skin irritation : Result: Repeated exposure may cause skin dryness or cracking/

Target Organ Systemic Toxicant – Single exposure : May cause drowsiness or dizziness.

Aspiration toxicity : The substance/mixture is known to cause human aspiration toxicity hazards or has to be regarded as if causes a human aspiration toxicity hazard.

Component: 1,2,4-Trimethylbenzene

Acute toxicity : LC50: >10 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Skin irritation : Result: Irritating to skin

Eye irritation : Result: Irritating to skin.

Target Organ Systemic Toxicant – Single exposure : May cause respiratory irritation

Component: Naphthalene

Acute oral toxicity : LD50: 2,000 mg/kg
Species: rat
Method: Acute toxicity estimates

Skin irritation : Species: rabbit
Result: No skin irritation.
: Method: OECD Test guideline 404
: Literature data

Eye irritation : Species: guinea pig
Result: No eye irritation
Method: OECD test Guideline 405
Literature cited

Sensitization : Maximization Test (GPMT)
Species: guinea pig
Result: Does not cause skin sensitization.
Method: OECD Test Guideline 406
Literature data.



*** Section 12 Ecological Information ***

Product Information:

Ecotoxicology Assessment An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

Further information on ecology Hazardous to the ozone layer

Regulation : 40 CFR Protection of Environment; Part 2 Protection of Stratospheric Ozone – CAA Section 602 Class 1 Substances.
Remarks : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A +B).

Ingredients:

Ecotoxicology Assessment

Component: 1,2,4-Trimethylbenzene
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Test result

Component: Proprietary surfactant blend component

Bioaccumulation : No data available
Mobility : No data available
Biodegradability : No data available

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

Component: Solvent naphta (petroleum) heavy arom.

Ecotoxicity effects
Toxicity to fish : LC50; >1 – 10 mg/l
Exposure time: 96h
Species: Fish
Read-across (Analogy)

Elimination information (persistence and degradability)

Bioaccumulation : No data available
Mobility : No data available

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available



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Component: 1,2,4-Trimethylbenene

Ecotoxicity effects

Toxicity to algae : NOEC: 0.1 – 1 mg/l
Exposure time: 505 h
Species: algae

Elimination information (persistence and degradability)

Bioaccumulation : No Data available
Mobility : No data available
Biodegradability : Result: Not readily biodegradable.

Further information on ecology

Biochemical Oxygen : No data available
Demand (BOD) :

Component: Naphthalene

Ecotoxicity effects

Toxicity to fish : LC50: > 0.1 – 1 mg/l
Exposure time: 96h
Species: Fish

Toxicity to daphnia and other : EC50: >1 – 10 mg/l
aquatic invertebrates : Exposure time: 48 h
Species: Daphnia

Toxicity to algae : EC50: >1 – 10 mg/l
Exposure time: 48 h
Species: Algae

M-Factor : 1

Elimination information (persistence and degradability)

Bioaccumulation : No data available
Mobility : No data available
Biodegradability : Result: Not readily biodegradable,

Further information on ecology

Biochemical Oxygen : No data available
Demand (BOD) :



*** Section 13 - Disposal Considerations ***

- Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Hazardous waste. Dispose of contents/container in accordance with local regulations. Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- Contaminated packaging : Empty remaining contents. Dispose of as unused product.

*** Section 14 - Transportation Information ***

International regulation

IATA-DGR

- UN/ID No. : UN3082
- Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Naphthalene, Aromatic petroleum distillate)
- Class : 9
- Packing group : III
- Labels : 9
- Packing instruction (cargo aircraft) : 964
- Packing instruction (LQ) (Passenger aircraft) : 96
- Packing instruction (LQ) : Y964
- Environmentally hazardous : Yes

IMDG-Code

- UN number : UN 3082
- Proper shipping name : Environmentally hazardous substance. Liquid, n.o.s.(Naphthalene, Aromatic, petroleum distillate)
- Class : 9
- Packing group : III
- Labels : 9
- EmS Code : F-A, S-F
- Marine Pollutant : Yes
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Harmonized Tariff Systems (HTS Classification)

- HTS code : 3824.90.9270

Domestic regulation

49 CFR



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UN/ID/NA number : UN NA 1993
Proper shipping name : Combustible liquid, n.o.s. (Aromatic petroleum distillate, 1,2,4-Trimethylbenzene).
Class : CBL
Packing group : III
Labels : NONE
ERG Code : 128
Marine pollutant : Yes (Aromatic petroleum distillate 1.,2,3-trimethylbenzene)
Reportable Quantity : This product contains the following substance(s) which are environmentally hazardous per 49 CFR 172.101, Appendix A: (Naphthalene).

*** Section 15 - Regulatory Information ***

Notification status

CH INV Switzerland : No. This mixture contains substances listed on the Swiss Inventory
TSCA U.S. : Yes. All chemical substances in this product are either listed on the TSCA inventory or in compliance with a TSCA inventory exemption.
DSL Canada : Yes. On the inventory, or in compliance with the inventory.
NZIoC New Zealand : No. Not in compliance with the inventory
ENCS Japan : No. Not in compliance with the inventory
ISHL Japan : No. No in compliance with the inventory
KECI Korea : Yes. On the inventory or in compliance with the inventory
PICCS Philippines : No. Not in compliance with the inventory
IECSC China : No. Not in compliance with the inventory

For explanation of abbreviations, see Section 16.

OSHA Hazards : Combustible, Liquid, Carcinogen, Harmful by ingestion, Severe Skin Irritant, Severe Eye Irritant, Severe respiratory irritant.

EPCRA – Emergency Planning and Community Right-to- Know

CERCLA Reportable quantity

Ingredients: Naphthalene
CAS-No.: 91-20-3
Component RQ: 100 lbs.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a Section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard; Chronic Health Hazard; Acute Health Hazard.

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313: 1,2,4-Trimethylbenzene 95-63-6; Naphthalene 91-20-3

Clean Air Act

The following chemicals are listed as HAP under the U.S. Clean /air Act, Section 12 (40 CFR 61): Naphthalene 91-20-3; 1,2-Propylene oxide 75-56-9.



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The following chemicals are listed under the U.S. Clean Air Act Section 112® for Accidental Release Prevention (40 CFR 68.130, Subpart F): 1,2-Propylene oxide 75-56-9.

The following chemicals are listed under the U.S. Clean Air Act Section 111 SOCMi intermediate or Final VOC's (40 CFR 60.489): 1,2-Propylene oxide 75-56-9.

Clean water act

The following Hazardous Substances are listed under the US. Clean Water Act, Section 311, Table 116.4A: Naphthalene 91-20-3; 1,2-Propylene oxide 75-56-9.

The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3: Naphthalene 91-20-3; 1,2-Propylene oxide 75-56-9.

The following product contains toxic pollutants listed under the U.S. Clean Water Act, Section 307: Naphthalene 91-20-3.

California Prop. 65

WARNING! This product contains chemicals known in the State of California to cause cancer: Naphthalene 91-20-3; 1,2-Propylene oxide 75-56-9.

* * * Section 16 - Other Information * * *

Full text of H-Statements

H227	:	Combustible liquid.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H351	:	Suspected of causing cancer.
H400	:	Very toxic to aquatic life.
H401	:	Toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	::	Toxic to aquatic life with long lasting effects.
	:	Health Hazard: 2 Flammability: 1 Physical Hazards: 0
	:	Health Hazard: 2 Flammability: 1 Physical Hazards: 0



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Further Information:

National Fire Protection

Association (NFPA) Rating : Health: 2 Fire 2 Reactivity 0

NFPA Rating Level : 0-Minimum; 1-Slight; 2- Moderate; 3-High 3 High; 4-Extreme

OSHA H.M.I.S. Rating

Rating : Health: 2 Fire 2 Reactivity 0

OSHA Rating Level : 0-Minimum; 1-Slight; 2- Moderate; 3-High 3 High; 4-Extreme

Comments:

The information provided in this 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.

SDS History

This is the original SDS/GHS formatted, May 29, 2015.

This is the end of SDS ID: AP-104