



UPTAKE

SECTION 1: IDENTIFICATION	
Product Trade Name:	UPTAKE
Product Code:	UPTAKE
Recommended Use:	Soil adjuvant, wetting agent Registration Number 2015072A Fertilizers Act
Restrictions on Use:	For Food processing, Industrial and Institutional use only
Supplier Name:	Pace Solutions Corporation
Supplier Address:	1597 Derwent Way, Delta, B.C. Canada V3M 6K8
Supplier Phone Number:	604-520-6211 800-799-6211 (toll free)
Email Address of Competent Person Responsible for the SDS:	info@pacesolutions.com
Emergency Phone Number/ 24-Hour Number:	For Transportation Emergencies: Canutec 613-996-6666 Emergency Response Services: Chemtrec 800-424-9300

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SECTION 2: HAZARD IDENTIFICATION	
Physical Hazards:	NONE
Health Hazards:	SKIN CORROSION/ IRRITATION – Category 1
	EYE DAMAGE/ IRRITATION – Category 1
Symbol:	The symbol is a red diamond with a white background. Inside the diamond, there is a black silhouette of a hand being poured upon by a test tube, with another hand holding a test tube nearby, representing skin corrosion or irritation.
Signal word:	DANGER
Hazard Statement:	H314 Causes severe skin burns and eye damage.
	H318 Causes serious eye damage.
PRECAUTIONARY STATEMENTS	
Prevention:	P260 Do not breathe fume/ gas/ mist/ vapours/ spray.
	P264 Wash hands and any affected area thoroughly after handling.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Responses:	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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SECTION 2: HAZARD IDENTIFICATION	
	P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water or shower.
	P363 Wash contaminated clothing before reuse.
	P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P301 + P302 + P304 + P316 IF SWALLOWED, ON SKIN OR INHALED: Get emergency medical help immediately.
	P321 Specific treatment (see supplemental first aid information on this label).
	P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/ container to an approved waste disposal plant.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	Approx. Wt.%	CAS Number
Isopropyl Alcohol	7-13	67-63-0
Didecyldimethyl Ammonium Chloride	5-10	7173-51-5
Ethanol	1-5	64-17-5

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SECTION 4: FIRST-AID MEASURES	
General Information:	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
Inhalation:	Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact:	Rinse skin. If irritation persists, obtain medical attention.
Eye Contact:	Immediately flush with warm running water for at least 15 minutes, holding eyelids open during flushing. Remove contact lenses, if present and easy to do. If irritation persists, repeat flushing and obtain medical attention immediately.
Ingestion:	Do not induce vomiting. If the victim is fully conscious, give plenty of clean water to drink to dilute product. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing. Call a Physician.

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SECTION 4: FIRST-AID MEASURES	
Self-Protection of the First Aider:	Remove all sources of ignition. Ensure that first aid personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Most Important Symptoms/ Effects, Acute and Delayed:	<p>Ingestion: Burning pain and severe digestive track damage.</p> <p>Inhalation: Low toxicity. Excessive exposure may cause severe irritation to the upper respiratory tract.</p> <p>Eyes and skin: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.</p>
If irritation occurs or persists, get medical attention.	

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SECTION 5: FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media:	Water fog, alcohol foam, or dry chemical.
Unsuitable Extinguishing Media:	None known.
Flammability:	This material has a low flash point but not considered as flammable as it is self-extinguishing.
Flash Point:	37.2 °C (Tag Closed Cup)
Special Firefighting Procedures:	Directing a solid stream of water into a hot burning liquid can cause frothing and spread the fire. Wear NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situation. Use water spray to cool all nearby fire exposed surfaces.
Unusual Fire/ Explosion Hazards:	None known.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen, hydrochloric acid and other unidentifiable organic substances.

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SECTION 6: ACCIDENTAL RELEASE MEASURES	
Environmental Protection Precautions:	Do not release to the environment or water source.
Steps to be Taken in Case Material is Released or Spilled:	Wear protective equipment. Absorb into inert mineral absorbent ("floor dry"). Wash Down floor. Flush area with water if appropriate. Keep material away from sewers. Reuse if possible, otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

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SECTION 7: HANDLING AND STORAGE	
Precautions to be Taken in Handling and Storage:	Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Keep out of reach of children. Store at temperatures below 30°C and above 5°C. Do not store in metal containers.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION				
EXPOSURE LIMITS:				
OSHA (PEL): Not available	ACGIH TLV: Not available		Other exposure limit: Not available	
Ethanol				
CAS No.:	64-17-5			
Regulation:	NIOSH		OSHA	OHSR
Type of Listing:	REL-TWA	IDLH	PEL-TWA	TLV-STEL C
Value:	1900 mg/m ³	3300 ppm	1000 mg/m ³	1000 ppm
INDIVIDUAL PROTECTION MEASURES / PERSONAL PROTECTIVE EQUIPMENT				
Appropriate Engineering Controls:	Good general ventilation.			
Skin Protection:	<p>Hand Protection: Non-permeable gloves (rubber, nitrile) recommended.</p> <p>Other Skin Protection: Not required under normal use condition. Personal protective equipment for the body should be selected based on the task being performed and the risks involved.</p>			
Eye and Face Protection:	Safety glasses or chemical goggles. Face shield if splashing hazard exists.			
Respiratory Protection:	Respirator should be selected based on the task being performed and the risks involved.			
Other Protective Equipment:	Eye wash, safety shower and full protective clothing recommended in the immediate work area.			

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Clear, colourless liquid
Odour:	Odourless. No added fragrance.
Odour threshold:	Not available.
pH:	6.0 – 7.0
Melting point/Freezing point:	Not available.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Initial boiling point and boiling range:	Not available.
Flash Point:	37.2 °C (Tag Closed Cup)
Evaporation Rate (Water=1):	<1
Flammability:	This material has a low flash point but not considered as flammable as it is self-extinguishing.
Upper/Lower flammability or explosive limits:	(for Isopropyl Alcohol) Upper 12.7. Lower 2
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density/Specific gravity (Water = 1):	0.97 @ 20 °C
Solubility(ies):	Soluble in water.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	(for Isopropyl Alcohol) 399 °C
Decomposition temperature:	Not available.
Viscosity:	Thin like water.
VOCs%:	Not available.

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SECTION 10: STABILITY AND REACTIVITY	
Reactivity:	Not available.
Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	Not available.
Conditions to avoid:	Temperatures above 30°C and below 5°C. Heat, hot surfaces, sparks, open flames and other ignition sources.
Incompatibility:	Strong oxidizers and reducing agents. Enzymes, biological organism.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen, hydrochloric acid and other unidentifiable organic substances.

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SECTION 11: TOXICOLOGICAL INFORMATION	
Likely routes of exposure:	Skin contact, skin absorption, eye contact, inhalation, ingestion.
Symptoms:	SKIN CONTACT: Redness, blisters.
	EYE CONTACT: Serious irritation, tearing, vision impairment.
	INHALATION: Mist may be irritant to respiratory track.

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SECTION 11: TOXICOLOGICAL INFORMATION	
	INGESTION: May cause irritation and nausea.
Acute Toxicity Estimates:	LD₅₀ Oral ATE > 3000 mg/kg 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
	LD₅₀ Dermal ATE > 2000 mg/kg 0% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
	LD₅₀ Inhalation ATE: Not available >50% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.
Skin Sensitization:	Data available on components indicates no potential skin sensitization.
Germinal Cell Mutagenicity:	Data available on components indicates no potential germinal cell mutagenicity.
Reproductive Toxicity:	Data available on components indicates no potential reproductive toxicity.
Carcinogenicity:	Data available on components indicates no potential carcinogenicity.
Aspiration Hazard:	Data available on components indicates no potential aspiration hazard.
STOT-SE:	Data available on components indicates no potential STOT-SE hazard.
STOT-RE:	Data available on components indicates no potential STOT-RE hazard.

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SECTION 12: ECOLOGICAL INFORMATION	
Toxicity to Fresh Water Algae:	Not available.
Toxicity to Fish Species:	Not available.
Toxicity to Aquatic Invertebrates:	Not available.
Persistence and degradability:	Expected to be readily biodegradable.
Bioaccumulation:	Not available.
Inherently Toxic to the Environment:	Not available.

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SECTION 13: DISPOSAL CONSIDERATIONS	
Recommended Waste Disposal Methods:	Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations. CONTAINER DISPOSAL – Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available or puncture and dispose of in a sanitary landfill.

SECTION 13: DISPOSAL CONSIDERATIONS

	<p>(For containers 5 gallons or less): Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour waste into application equipment or a mix tank or store waste for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.</p> <p>(For containers greater than 5 gallons): Triple rinse container promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the waste into application equipment or a mix tank or store waste for later use or disposal. Repeat this procedure two more times.</p>
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SECTION 14: TRANSPORT INFORMATION

Canadian TDG UN Number:	1760
UN Proper Shipping Name:	CORROSIVE LIQUID, N.O.S., (contains quaternary ammonium compounds)
Transport Hazard Class(es):	8
Packing Group:	III
Environmental Hazards:	Marine pollutant.
Special Precautions for User:	Not available.
Additional Information:	Explosive Limit and Limited Quantity Index: 5 Litres Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index: 5 Litres

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SECTION 15: REGULATORY INFORMATION

Inventory Ingredients	DSL/ NDSL	NPRI	TSCA
Isopropyl Alcohol (CAS# 67-63-0)	Listed on the DSL	Listed	Listed, Active
Didecyldimethyl Ammonium Chloride (CAS# 7173-51-5)	Listed on the DSL	Not listed	Listed, Active
Ethanol (CAS# 64-17-5)	Listed on the DSL	Listed	Listed, Active

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SECTION 16: OTHER INFORMATION	
ACRONYM LIST	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute Toxicity Estimate
C	Ceiling Limit – The maximum exposure limit
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
DSL/NDSL	Domestic Substances List/ Non-domestic Substance List
EC₅₀	Half maximal effective concentration
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
iT_E	Inherently Toxic to the Environment
LC₅₀	Lethal concentration, 50%
LD₅₀	Lethal dose, 50%
MSHA	Mine Safety and Health Administration
N/A	Not Applicable
NIOSH	The National Institute for Occupational Safety and Health
N.O.S.	Not Otherwise Specified
NPRI	National Pollutant Release Inventory
NTP	National Toxicology Program
OHSR	Occupational Health & Safety Regulation
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
PNOC	Particulates not otherwise classified
PMCC	Pensky-Martens Closed Cup
P_{ow}	Partition Coefficient Octanol: Water
REL	Recommended Exposure Limit
SDS	Safety Data Sheets
STEL	Short-Term Exposure Limit
STOT – SE	Specific Target Organ Toxicity – Single Exposure
STOT – RE	Specific Target Organ Toxicity – Repeated Exposure
TDG	Transportation of Dangerous Goods

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SECTION 16: OTHER INFORMATION	
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act Chemical Substance
TWA	Time-Weighted Average
UN	United Nations
VOCs	Volatile Organic Compounds
WEL	Workplace Exposure Limit
WEEL	Workplace Environmental Exposure Limit
WHMIS	Workplace Hazardous Materials Information System

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It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. PACE Solutions Corporation will accept no liability for damages or loss incurred from the improper handling and use of this product.

The information provided in the Safety Data Sheet has been obtained from current sources and is believed to be reliable.