

Liquid Squid

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Liquid Squid**

Other means of identification : Not available.

Recommended use of the chemical and restrictions on use

: Soil Amendment
Restriction on use: None known

Chemical family

: Mixture

Name, address, and telephone number of the supplier:

GreenFlow Corp.

106-195 King St.
St. Catharines, ON, Canada
L2R 3J6

Supplier's Telephone # : (289) 606-1313

24 Hr. Emergency Tel # : (888) 552-3651

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Dark brown liquid. Fishy odour.

Most important hazards: Causes skin irritation. Causes eye irritation. Occupational exposure to the substance or mixture may cause adverse effects.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:

Skin Irritation - Category 2

Eye damage/irritation - Category 2A

Physical Hazards Not Otherwise Classified (PHNOC) :Not applicable

Health Hazards Not Otherwise Classified (HHNOC) :Not applicable

Label elements

Hazard pictogram(s)



Signal Word

Warning!

Hazard statement(s)

Causes skin irritation.

Causes serious eye irritation.

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Precautionary statement(s)

Wash thoroughly after handling.
Wear protective gloves/clothing and eye/face protection.

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

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.

Other hazards

Not available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Phosphoric acid	Hydrogen Phosphate	7664-38-2	1.0 - 5.0
Propanoic acid, 2-hydroxy-, (2S)-	Lactic acid	79-33-4	0.1 - 1.0
Potassium Sulfate	sulphate of potash	7778-80-5	1.0 - 5.0
Hydrolyzed Squid	None assigned.	N/A	80.0 - 100.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Rinse mouth with water. If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.
- Inhalation* : Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing is irregular or stopped, administer artificial respiration. If experiencing respiratory symptoms call a poison center or doctor.
- Skin contact* : Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
- Eye contact* : Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If irritation occurs or persists, seek medical attention.

Most important symptoms and effects, both acute and delayed

- : Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes skin irritation. Symptoms may include a burning sensation, redness, swelling, drying, and cracking of the skin.

Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media* : Carbon dioxide; Water; Foam; Dry chemical
- Unsuitable extinguishing media* : No information available.

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Special hazards arising from the substance or mixture / Conditions of flammability

- : Burning may produce irritating, toxic and obnoxious fumes.

Flammability classification (OSHA 29 CFR 1910.106)

- : Not classified as flammable.

Hazardous combustion products

- : Carbon oxides

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Avoid discharge into drains, water courses or onto the ground. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): None known.

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Provide adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Do not breathe mists, vapours or sprays. Avoid contact with skin, eyes and clothing. Keep away from incompatibles. Wash thoroughly after handling. Keep container tightly closed when not in use. Empty containers retain residue and can be dangerous.

Conditions for safe storage : Store in a well-ventilated place. Keep container tightly closed. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials : Alkalies; Aluminium; mild steel

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Phosphoric acid	1 mg/m ³	3 mg/m ³	1 mg/m ³	N/Av
Propanoic acid, 2-hydroxy-, (2S)-	N/Av	N/Av	N/Av	N/Av
Potassium Sulfate	N/Av	N/Av	N/Av	N/Av
Hydrolyzed Squid	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

: In case of inadequate ventilation wear respiratory protection. If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

: Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear apron or protective clothing in case of contact.

Eye / face protection

: Wear eye/face protection. Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing mist, vapors or spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Colour	: dark brown
Odour	: Fishy odour.
Odour threshold	: N/Av
pH	: 3.0
Melting Point/Freezing point	: N/Av
Initial boiling point and boiling range	: 106°C
Flash point	: N/Av
Flashpoint (Method)	: N/Av
Evaporation rate (BuAe = 1)	: N/Av
Flammability	: N/Av

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Lower explosion or flammability limit (% by vol.)

: N/Av

Upper explosion or flammability limit (% by vol.)

: N/Av

Oxidizing properties : N/Av

Explosive properties : N/Av

Vapour pressure : N/Av

Relative vapour density : N/Av

Relative density / Specific gravity

: 1.04

Solubility in water : N/Av

Other solubility(ies) : N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature : N/Av

Decomposition temperature : N/Av

Viscosity : N/Av

Particle characteristics : Not applicable.

Volatiles (% by weight) : N/Av

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Av

Flame projection length : N/Av

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : Open flames. Intense heat. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials : Alkalies; Aluminum; Steel

Hazardous decomposition products

: Ammonia; hydrogen gas; Methane

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: NO

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Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Minor irritation may develop if overexposure occurs.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

: Causes skin irritation. Symptoms may include reddening, swelling, rash, scaling, or blistering.

Sign and symptoms eyes

: Causes eye irritation. Symptoms may include tearing, redness and discomfort.

Potential Chronic Health Effects

: No data available.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

: Not expected to have carcinogenic effects.

Reproductive effects & Teratogenicity

: Not classifiable as a reproductive toxin.

Sensitization to material

: Not expected to be a skin sensitizer.

Specific target organ effects : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012), this product is not expected to cause target organ toxicity through single or repeated exposures.

Medical conditions aggravated by overexposure

: Pre-existing skin conditions.

Synergistic materials

: None reported by the manufacturer.

Toxicological data

: No data is available on the product itself. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Phosphoric acid	N/Av	3500 mg/kg (85%); 4400 mg/kg (75%)	> 1260 mg/kg (85%); > 3160 mg/kg (75%)
Propanoic acid, 2-hydroxy-, (2S)-	N/Av	3730 mg/kg	>2000 mg/kg
Potassium Sulfate	n/av	6600 mg/kg	n/av
Hydrolyzed Squid	N/Av	N/Av	N/Av

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Avoid release to the environment. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

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Ecotoxicity data:

<u>Ingredients</u>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Phosphoric acid	7664-38-2	75.1 mg/L (Japanese ricefish)	N/Av	None.
Propanoic acid, 2-hydroxy-, (2S)-	79-33-4	320 mg/L	N/Av	None.
Potassium Sulfate	7778-80-5	510-880 mg/L (Fathead fish)	n/av	none
Hydrolyzed Squid	N/A	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Phosphoric acid	7664-38-2	376 mg/L (Daphnia magna)	N/Av	None.
Propanoic acid, 2-hydroxy-, (2S)-	79-33-4	180-320mg/L	N/Av	None.
Potassium Sulfate	7778-80-5	n/av	n/av	none
Hydrolyzed Squid	N/A	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Phosphoric acid	7664-38-2	32 mg/L/72hr (Green algae)	N/Av	None.
Propanoic acid, 2-hydroxy-, (2S)-	79-33-4	3.5 mg/L	N/Av	None.
Potassium Sulfate	7778-80-5	2900 mg/L/72 hours (Green algae)	n/av	none
Hydrolyzed Squid	N/A	N/Av	N/Av	N/Av

Persistence and degradability

: No information available.

Bioaccumulation potential

: No information available.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Propanoic acid, 2-hydroxy-, (2S)- (CAS 79-33-4)	-0.62	N/Av

Mobility in soil

: No information available.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package.

Environmental hazards : Not expected to be harmful to aquatic organisms.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de Minimis Concentration
Phosphoric acid	7664-38-2	Yes	5000 lbs / 2270 kg	None.	No	N/Ap
Propanoic acid, 2-hydroxy-, (2S)-	79-33-4	Yes	N/Ap	N/Av	No	N/Ap
Potassium Sulfate	7778-80-5	Yes	N/Ap	None.	No	NS
Hydrolyzed Squid	N/A	NS	N/Ap	N/Av	NS	NS

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Skin irritation; Eye irritation

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Phosphoric acid	7664-38-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	No
Propanoic acid, 2-hydroxy-, (2S)-	79-33-4	No	N/Ap	No	No	No	No	No	No
Potassium Sulfate	7778-80-5	No	N/Ap	No	No	No	No	No	No
Hydrolyzed Squid	N/A	No	N/Ap	NS	NS	NS	NS	NS	NS

Canadian Information:

All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Phosphoric acid	7664-38-2	231-633-2	Present	Present	(1)-422	KE-27427	Present	HSR001545, HSR001571 (dilution)
Propanoic acid, 2-hydroxy-, (2S)-	79-33-4	201-196-2	Present	Present	(2)-1369	KE-21803	Present	HSR007379
Potassium Sulfate	7778-80-5	231-915-5	Present	Present	(1)-454	KE-29200	Present	HSR002794
Hydrolyzed Squid	N/A	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CSA: Canadian Standards Association
- COC: Cleveland Open Cup
- DOT: Department of Transportation
- EPA: Environmental Protection Agency

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IARC: International Agency for Research on Cancer
 LC: Lethal Concentration
 LD: Lethal Dose
 N/Ap: Not Applicable
 N/Av: Not Available
 NIOSH: National Institute of Occupational Safety and Health
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible exposure limit
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TWA: Time Weighted Average

- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
 2. ECHA - European Chemical Agency
 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
 4. Safety Data Sheets from manufacturer.
 5. US EPA Title III List of Lists
 6. California Proposition 65 List
 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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Other special considerations for handling : Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> GreenFlow Corp. 106-195 King St. St. Catharines, ON, Canada, L2R 3J6 Telephone: (888) 552 3651</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

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