



**1. Identification**

<b>Product identifier</b>	<b>Hydration</b>
<b>Product code</b>	HYDRA
<b>Recommended use</b>	Turf & Horticulture
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company name</b>	<b>Plant Food Company, Inc.</b>
<b>Address</b>	38 Hightstown-Cranbury Station Road Cranbury, NJ 08512 United States
<b>Telephone</b>	Corporate Office 1-609-448-0935
<b>Website</b>	<a href="http://plantfoodco.com">plantfoodco.com</a>
<b>E-mail</b>	<a href="mailto:pfc@plantfoodco.com">pfc@plantfoodco.com</a>
<b>Contact person</b>	<b>Grant Platz, Ted Platz</b>
<a href="http://www.plantfoodco.com">www.plantfoodco.com</a>	
EH&S / Regulatory Department	
<b>Emergency phone number</b>	<b>1-800-424-9300 CCN725928 or +1 703-527-3887 (collect calls accepted)</b>
<b>Call CHEMTREC Day or Night</b>	
<b>Within USA and Canada</b>	
Other Countries	1-609-448-0935

**2. Hazard(s) identification**

<b>Physical hazards</b>	Flamable Liquid	
<b>Health hazards</b>	Acute toxicity, oral Serious eye damage/eye irritation Specific target organ toxicity, single exposure	Category 4 Category 2A Category 3 respiratory tract irritation Category 2
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
<b>OSHA defined hazards Label elements</b>	Not classified.	
<b>Label elements</b>	 	
<b>Signal word</b>	<b>Warning    Flammable Liquid</b>	
<b>Hazard statement</b>	Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.	
<b>Precautionary statement</b>	Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.	
<b>Prevention</b>		
<b>Response</b>	If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention.	
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.	
<b>Supplemental information</b>		

**3. Composition/information on ingredients**

<b>Mixtures</b>		
<b>Chemical name</b>	<b>Common name and synonyms</b>	
<b>CAS number</b>	<b>CAS number</b>	%
Ethanol	64-17-5	50-90
Other components below reportable levels		

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**4. First-aid measures**

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Most important symptoms/effects, acute and delayed</b>	Irritation of eyes and mucous membranes.

**Indication of immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### 5. Fire-fighting measures

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).  
**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.  
**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.  
**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk.  
**Fire-fighting equipment/instructions** Move container from fire area if it can be done without risk.  
**Specific methods** Move container from fire area if it can be done without risk.  
**General fire hazards** No unusual fire or explosion hazards noted.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Keep people away from and upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective  
**Methods and materials for containment and cleaning up** Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in  
 Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

**Precautions for safe handling** Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate  
**Conditions for safe storage, including any incompatibilities** Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

**Occupational exposure limits** No exposure limits noted for ingredient(s).  
**Biological limit values** No biological exposure limits noted for the ingredient(s).  
**Appropriate engineering controls** Provide eyewash station.  
**Individual protection measures, such as personal protective equipment**  
**Eye/face protection** Wear eye/face protection. Wear safety glasses with side shields (or goggles).  
**Skin protection**  
**Hand protection** For prolonged or repeated skin contact use suitable protective gloves.  
**Other** Wear suitable protective clothing.  
**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.  
**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.  
**General hygiene considerations** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance** Aqueous solution.  
**Physical state** Liquid.  
**Form** Liquid.  
**Color** Clear  
**Odor** Alcohol  
**Odor threshold** Not available.  
**pH** 5.4  
**Salt-Out / Crystallization Temp** Not available.  
**Melting point/freezing point** Not available.  
**Initial boiling point and boiling range** 165.2 - 176°F (74 - 80°C)  
**Flash point** Not available.  
**Evaporation rate** Not available.  
**Flammability (solid, gas)** Not available.  
**Upper/lower flammability or explosive limits** Not available.  
**Flammability limit - lower (%)** Not available.  
**Flammability limit - upper (%)** Not available.  
**Explosive limit - lower (%)** Not available.

Explosive limit - upper (%)	Not available.
Vapor pressure	6.661 hPa @ 20° C (68 F°)
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	100%
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	400° C (752° F)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific Gravity:	7.044
Pounds per gallon	8.4 lb/gal
Shelf life	> 2 years

**10. Stability and reactivity**

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

**11. Toxicological information**

Information on likely routes of exposure

<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	May cause irritation to the respiratory system. May cause damage to organs by inhalation.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

**Acute toxicity** Harmful if swallowed. May cause respiratory irritation.

Components	Species	Test Results
Ethanol	64-17-5	
LD50 Dermal	Rabbit	2000 mg/kg
LD50 Oral	Rat	2000 mg/kg
* Estimates for product may be based on additional component data not shown.		
<b>Skin corrosion/irritation</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory or skin sensitization</b>		
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	
<b>Germ cell mutagenicity</b>	Not Classified	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		
Not listed.	Not listed.	
<b>Reproductive toxicity</b>	Not available.	
<b>Specific target organ toxicity - single exposure</b>	Respiratory tract irritation.	
<b>Specific target organ toxicity - repeated exposure</b>	Not available.	
<b>Aspiration hazard</b>	Not available.	

**12. Ecological information**

<b>Ecotoxicity</b>	Toxic to aquatic life.	
Product	Species	Test Results
Ethanol	64-17-5	
Crustacea (water flea)	EC50	>100 mng/l, 48 hrs
Fish	LC50 Fish	>100 mng/l, 96 hrs
* Estimates for product may be based on additional component data not shown.		
<b>Persistence and degradability</b>	This material is biodegradable	
<b>Bioaccumulative potential</b>	Not expected to bioaccumulate	
<b>Mobility in soil</b>		
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

**13. Disposal considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport information**

<b>DOT</b>	Not regulated as dangerous goods.
<b>UN Number:</b>	UN1170
<b>UN Proper Shipping Name:</b>	Not regulated as dangerous goods.
<b>Transport Hazard Class:</b>	3
<b>Subsidiary Hazard Class(es):</b>	
<b>Packaging Group:</b>	III
<b>Special Precautions/Provisions:</b>	49CFR Parts 100-185, Emergency Response Guidebook #127

**15. Regulatory information**

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not regulated.
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Not listed.
<b>SARA 304 Emergency release notification</b>	Not regulated.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed.
<b>DOT:</b>	49CFR Parts 100-185
<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
<b>SARA 302 Extremely hazardous substance</b>	No
<b>SARA 311/312 Hazardous chemical</b>	Yes
<b>SARA 313 (TRI reporting)</b>	No

**16. Other information, including date of preparation or last revision**

<b>Issue date</b>	6/1/2015
<b>Revision date</b>	2/27/2015
<b>Version #</b>	2
<b>Disclaimer</b>	While the information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

<b>Revision Information</b>	Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties
-----------------------------	--