

**SAFETY DATA SHEET**

**SDS Review Date: 06/14/15**

**SDS Version Number: 1**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY**

**1.1. Product identifier**

Product Form: *Green Liquid*  
 Product Name: *Hydrophast FAA Compliant*  
 Product Code: *7002*

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

*Traffic paint.*

**1.3. Details of the supplier of the safety data sheet**

*Franklin Paint Company, Inc.*  
*259 Cottage St.*  
*Franklin, MA 02038*  
[www.franklinpaint.com](http://www.franklinpaint.com)

**1.4. Emergency telephone number**

*Emergency Information number : CHEMTEL 800-255-3924*  
*Product Information number : OFFICE 800-486-0304*

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**GHS-US classification**

Classification	Hazard Category	Hazard Number
<i>Serious eye damage/eye irritation</i>	2	<i>H319</i>
<i>Specific target organ toxicity – single exposure</i>	3	<i>H335</i>
<i>Carcinogenicity</i>	1A	<i>H350</i>

**2.2. Label elements**

**GHS-US labelling**

Hazard pictograms (GHS-US) :



Signal word (GHS-US) – **DANGER**

Hazard statements (GHS-US)

- Causes eye irritation (H320)*
- May cause respiratory irritation (H335)*
- May cause cancer (H350)*

Precautionary statements (GHS-US)

- Wash thoroughly after handling. (P264)*
- Wear protective gloves/protective clothing/eye protection/face protection. (P280)*
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. (P305 + P351 + P338)*
- If eye irritation persists get medical advice/attention. (P337 + P313)*
- Avoid breathing dust/fumes/gas/mist/vapors/spray. (P261)*
- Use only outdoors or in a well ventilated area. (P271)*
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304 + P340)*
- Get medical advice/attention if you feel unwell. (P314)*
- Store in a well ventilated place. Keep container tightly closed. (P403 + P233)*
- Store locked up. (P405)*
- Dispose of contents/container in accordance with local/regional/national/international regulation (P501)*

**2.3. Other hazards**

*None known*

**2.4. Unknown acute toxicity (GHS-US)**

*No data available*

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

*Not applicable*

**3.2. Mixture**

Component	CAS No. EC No.	Percent	Hazard class / category / statement
<i>Titanium dioxide*</i>	<i>13463-67-7 236-675-5</i>	<i>0.2 - 8.0</i>	<i>Carc. 2; H351</i>
<i>Calcium Carbonate</i>	<i>471-34-1 207-439-9</i>	<i>50.0- 58.2</i>	

Ethanol (Denatured)	64-17-5 200-578-6	1.0 - 2.0	Flam. Liq. 2: H225
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	25265-77-4 246-771-9	1.0 - 4.0	
Aqua Ammonia	7664-41-7 231-635-3	< 1	Eye Irrit. 2;; H319 STOT SE 3; H335
Crystalline Silica	14808-60-7 EC No. NA	0.1 – 0.99	Carc. 1A; H350

\* Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints."

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

*First-aid measures general*

*No hazards which requiring special first aid measures.*

*First-aid measures after inhalation*

*If overexposed to mist or dust above published exposure limits, move to fresh air. If symptoms persist, call a physician.*

*First-aid measures after skin contact*

*Wash off immediately with soap and plenty of water removing all contaminated clothing necessary.*

*First-aid measures after eye contact*

*Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.*

*First-aid measures after ingestion*

*Rinse mouth with water and afterwards drink plenty of water. Do not induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.*

**4.2. Most important symptoms and effects, both acute and delayed**

*No information available.*

**4.3. Indication of any immediate medical attention and special treatment needed**

*Treat symptomatically.*

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

*Suitable extinguishing media : Water, dry chemical, or carbon dioxide.*

*Unsuitable extinguishing media : None*

### **5.2. Special hazards arising from the substance or mixture**

*Carbon monoxide, carbon dioxide, and organic products of decomposition may be released in case of fire: Closed container may rupture if strongly heated.*

### **5.3. Advice for firefighters**

*As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.*

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

*Assure sufficient ventilation. Use personal protective clothing. Use NIOSH approved respiratory protection if exposed to vapors, dust, mist, or aerosols above published exposure limits.*

### **6.2. Environmental precautions**

*Product sinks in water. Prevent spilled material from entering waterways or soil, There are no chemical ingredients with an established CERCLA Reportable Quantity (RQ) for spills and releases.*

### **6.3. Methods and material for containment and cleaning up**

*Absorb spill with inert material and place in a chemical waste container. Dispose of in accordance with federal, state, provincial and local laws and regulations. Larger quantities: Remove mechanically (by pumping).*

### **6.4. Reference to other sections**

*See Section 8 for exposure controls and personal protection.*

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

*Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust.*

*Wear impermeable rubber gloves.*

*Wash thoroughly after handling.*

*In case of insufficient ventilation, wear suitable respiratory equipment.*

*Remove contaminated clothing and wash it before reuse.*

*Do not eat, drink, smoke or chew tobacco around material.*

***This product contains ethyl alcohol: which has been denatured by the addition of additive(s) to render the alcohol unfit for human consumption. Therefore, this product should not be used as an alcoholic beverage.***

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store container at temperatures above 5 °C (40 °F) and less than 49 °C (120 °F). Keep out of the reach of children.

**Incompatible products:** Strong acids, strong bases, strong oxidizers.

**Incompatible materials:** Lithium metal, sodium metal.

**7.3. Specific end use(s)**

*No additional information available*

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

<b>Chemical Name</b>	<b>ACGIH &amp; Canada</b>	<b>OSHA &amp; Mexico</b>
<i>Titanium dioxide</i>	<i>10 mg/m<sup>3</sup> - TWA total 3 mg/m<sup>3</sup> – TWA respirable</i>	<i>15 mg/m<sup>3</sup> - TWA total 5 mg/m<sup>3</sup> - TWA respirable</i>
<i>Calcium Carbonate</i>	<i>10 mg/m<sup>3</sup> - TWA total 3 mg/m<sup>3</sup> – TWA respirable</i>	<i>15 mg/m<sup>3</sup> - TWA total 5 mg/m<sup>3</sup> - TWA respirable</i>
<i>Ethanol</i>	<i>1000 ppm - TWA</i>	<i>1000 ppm - TWA</i>
<i>2,2,4-trimethyl-1,3-pentanediol monoisobutyrate</i>	<i>Not established</i>	<i>Not established</i>
<i>Crystalline Silica</i>	<i>0.025 mg/m<sup>3</sup> 8hr TWA</i>	<i>30 mg/m<sup>3</sup> / (%SiO<sub>2</sub>+2) TWA total 10 mg/m<sup>3</sup> / (%SiO<sub>2</sub>+2) TWA respirable</i>

**8.2. Exposure controls**

*Provide general and/or local exhaust ventilation to maintain airborne levels below the exposure limits in Section 8. Refer to the current edition of 'Industrial Ventilation: A Manual of Recommended Practice' published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.*

**8.3. Personal protective equipment**

- Protective measures**     *Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling*
- Hygiene measures**     *Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.*
- Respiratory protection** *In case of insufficient ventilation wear NIOSH approved respiratory equipment. If vapor exceeds TLV or PEL, use NIOSH approved air-purifying respirators equipped with organic vapor cartridges. Air-purifying Respirators should be equipped with an ammonia methylamine cartridge and Dust/Mist filter.*
- Hand protection**     *Wear water proof protective gloves and impervious clothing.*
- Eye protection**       *Use safety glasses with side shields, (ANSI Z87.1 or approved equivalent).*

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	<i>Green Liquid</i>
<b>Odor</b>	<i>Ammonia like</i>
<b>Odor Threshold</b>	<i>5 ppm re ATSDR</i>
<b>pH</b>	<i>9.7 - 10.7</i>
<b>Melting / Freezing Point</b>	<i>32 (°F), 0 (°C)</i>
<b>Boiling Point</b>	<i>212 (°F), 100 (°C)</i>
<b>Flash Point</b>	<i>Not Applicable</i>
<b>Evaporation rate</b>	<i>1 (water = 1)</i>
<b>Flammability (solid, gas)</b>	<i>Not applicable</i>
<b>Lower Explosion Limit</b>	<i>Not applicable</i>
<b>Upper Explosion Limit</b>	<i>Not applicable</i>
<b>Vapor Pressure</b>	<i>40 mmHg</i>
<b>Vapor Density</b>	<i>Not available</i>
<b>Density Relative</b>	<i>1.66</i>
<b>Density (lbs/gal)</b>	<i>13.84</i>
<b>Solubility</b>	<i>Water miscible</i>

<b>Wt. % Solids</b>	77.44
<b>Vol. % Solids</b>	61.25
<b>Wt. % Volatiles</b>	22.56
<b>Vol. % Volatiles</b>	38.75
<b>Grams VOCs / liter</b>	102.36
<b>Wt % HAPs</b>	0
<b>Partition coefficient (o/w)</b>	No data
<b>Ignition Temp.</b>	No data
<b>Autoignition Temp.</b>	Not applicable
<b>Decomposition Temp.</b>	No data
<b>Oxidizing properties :</b>	Not applicable
<b>Explosive properties :</b>	Not applicable

**9.2. Other information**

*No additional information available*

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity:** *Hazardous polymerization will not occur.*

**10.2. Chemical stability:** *Stable under normal conditions.*

**10.3. Possibility of hazardous reactions:** *Not applicable.*

**10.4. Conditions to avoid:** *Prevent from freezing.*

**10.5. Incompatible materials:** *Strong acids, strong bases, strong oxidizers.*

**10.6. Hazardous decomposition products:** *Carbon monoxide, carbon dioxide, and organic products of decomposition may be released in case of fire.*

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Toxicokinetics, metabolism and distribution**      No data

**Caustic burning / irritation of skin**

Calcium Carbonate	<i>Irritating</i>
Titanium Dioxide	<i>Irritating</i>
2,2,4-trimethyl-1,3-pentanediol	<i>Rabbit, 24 hr, slight</i>

monoisobutyrate

### Serious eye damage/eye irritation

Calcium Carbonate	<i>Irritating</i>
Titanium Dioxide	<i>Irritating</i>

### Acute Oral Toxicity

Calcium Carbonate	<i>LD50 rat 6450 mg/kg</i>
Titanium Dioxide	<i>LD50 rat &gt; 10000 mg/kg</i>
Ethanol	<i>LD50 rat 7060 mg/kg</i>
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	<i>LD50 rat 3200 mg/kg</i>

### Acute Inhalational Toxicity

Titanium Dioxide	<i>LC50 rat inhalation 4 h (Dust): &gt; 6.82 mg/L</i>
Ethanol	<i>LC50 Rat 124. 7 mg/L Inhalation 4 h</i>
Ethanol	<i>LC50 Rat 20000 ppm Inhalation 10 h</i>
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	<i>LC rat inhalation &gt; 3500mg/m3 6 h</i>

### Acute Dermal Toxicity

Titanium Dioxide	<i>LD50 rabbit &gt; 15200 mg/kg</i>
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	<i>Guinea pig LD50 skin &gt; 19000 mg/kg</i>

### Respiratory/Skin Sensitization

Calcium Carbonate	<i>Not classified</i>
Titanium Dioxide	<i>No information available</i>

### Mutagenicity Assessment:

Calcium Carbonate	<i>Not mutagenic according to known data</i>
Titanium Dioxide	<i>Not mutagenic according to test data for normal pigment particles, but some adverse mutagenic data obtained with titanium dioxide nano particles.</i>
Ethanol	<i>Not mutagenic according to known data</i>



2,2,4-trimethyl-1,3-pentanediol monoisobutyrate      *Not mutagenic according to known data*

**Carcinogenicity**

Chrystalline Silica      *IARC 1, NTP - Known to be a human carcinogen*

Titanium Dioxide      *IARC 2B – Possible human carcinogen*  
 • *Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints."*

**Reprotoxicity / Teratogenicity**

Calcium Carbonate      *No information available*

Titanium Dioxide      *No information available*

Ethanol      *Considered teratogenic in alcoholic beverages*

**CMR Assessment**      *No data*

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Titanium dioxide      *LC50: >1000 mg/L (Fathead Minnow - 96 hr.)*  
 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate      *> 77 % (28 d, Ready Biodegradability: CO2 Evolution Test) Readily biodegradable*

**12.2. Persistence and degradability**

*No information available or No known data.*

**12.3. Bioaccumulative potential**

*No information available or No known data.*

**12.4. Mobility in soil**

*No information available or No known data.*

**12.5. Other adverse effects**

*No information available or No known data.*

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

*Dispose of in accordance with local/state, and national regulations.*

**SECTION 14: TRANSPORTATION INFORMATION**

**US DOT Hazard Classification:** *Not regulated*

**Canadian TDG Classification:** *Not regulated*

**Air transport ICAO / IATA:** *Not regulated*

**Shipment by sea IMDG / GGVSee:** *Not regulated*

**SECTION 15: REGULATORY INFORMATION**

**15.1. US Regulations**

**CERCLA (EPA)** *See Section 6 above.*

**SARA TITLE III (EPA)** *Product contains the following chemicals listed as Toxic Chemicals subject to the reporting requirements of SARA Title III §313 and 40 CFR Part 372.*

*None*

*SARA Title III §§311/312 and 40 CFR 370 Tier II & MSDS reporting is required for the uncured product as a whole above the 10,000 lb "on-site at any time" threshold as*

<i>Acute Health Hazard</i>	<i>Yes</i>
<i>Chronic Health Hazard</i>	<i>Yes</i>
<i>Fire Hazard</i>	<i>No</i>
<i>Sudden Release of Pressure Hazard</i>	<i>No</i>
<i>Reactive Hazard</i>	<i>No</i>

*Not subject to SARA Title III §302(c) and 40 CFR 355 Threshold Planning Quantity (TPQ) requirements.*

**TSCA (EPA)** *Product complies with US TSCA inventory requirements.*

**Clean Air Act (EPA):** *Product contains the following chemicals listed as a Hazardous Air Pollutant (HAP) under Section 112 :*

*None*

Product contains the following chemicals listed as Risk Management (RMP) chemicals under Section 112r:

None

**15.2. International regulations**

**Canada**

**Canadian DSL** (Domestic Substances List) Inventory – all chemical ingredients of this product are listed or exempted.

**EU-Regulations**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]** - amending & repealing EC No 1272/2008 Directives 67/548/EEC & 1999/45/EC, and amending (EC) No 1907/2006

<i>Index No</i>	<i>Chemical Identification</i>	<i>EC No</i>	<i>CAS No</i>
603-002-00-5	ethanol	200-578-6	64-17-5

**15.3. US State regulations**

**CALIFORNIA PROP 65** Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

*Titanium Dioxide*

*Crystalline Silica (as respirable dust)*

<b>State Right to Know Lists</b>	<b>CA</b>	<b>FL</b>	<b>NJ</b>	<b>PA</b>	<b>MN</b>	<b>MA</b>	<b>RI</b>
Calcium Carbonate	No	Yes	Yes	Yes	Yes	Yes	No
Titanium Dioxide	Yes	Yes	Yes	Yes	Yes	Yes	No
Ethanol	Yes	Yes	Yes	Yes	Yes	Yes	No
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	No	No	No	No	No	No	No
Crystalline Silica	Yes	Yes	Yes	Yes	Yes	Yes	No

**SECTION 16: OTHER INFORMATION**

	Health	Flammability	Physical Hazard
HMIS rating	2*	0	0
NFPA rating	2	0	0

**HMIS Hazard Ratings**

4 = severe

3 = serious

2 = moderate

1 = slight

0 = minimal

N = no rating for powders

\* = chronic health hazard

**NFPA Hazard Ratings**

4 = extreme

3 = high

2 = moderate

1 = slight

0 = insignificant

N = no rating for powders

**Acronyms Legend**

- ACGIH** American Conference of Governmental Industrial Hygienists
- ASTM** American Society for Testing and Materials
- ATSDR** Agency for Toxic Substances and Disease Registry
- BOD** Biochemical oxygen demand
- c.c.** closed cup
- CAO** Cargo Aircraft Only
- Carc** Carcinogen
- CAS** Chemical Abstract Services
- CERCLA** Comprehensive Environmental Response – Compensation and Liability Act
- CFR** Code of Federal Regulations
- CMR** carcinogenic-mutagenic-toxic for reproduction
- COD** Chemical oxygen demand
- DOT** Department of Transportation
- EC50** half maximal effective concentration
- EPA** Environmental Protection Agency
- ERG** Emergency Response Guide Book
- FDA** Food and Drug Administration
- GHS** Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
- GLP** Good Laboratory Practice
- HAP** Hazardous Air Pollutant
- HCS** Hazard Communication Standard
- HMIS** Hazardous Materials Identification System
- IARC** International Agency for Research on Cancer
- IATA** International Air Transport Association
- ICAO-TI** International Civil Aviation Organization- Technical Instructions

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<b>ID</b>	Identification number
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IUPAC</b>	International Union of Pure and Applied Chemistry
<b>LC50</b>	50 % Lethal Concentration
<b>LD50</b>	50 % Lethal Dose
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>MARPOL</b>	International Convention for the Prevention of Pollution from Ships
<b>NFPA</b>	National Fire Protection Association
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organization for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>RQ</b>	Reportable Quantity
<b>SARA</b>	Superfund Amendments Reauthorization Act
<b>SDS</b>	Safety Data Sheet
<b>STOT</b>	Specific Target Organ Toxicity
<b>TPQ</b>	Threshold Planning Quantity
<b>UN</b>	United Nations
<b>VOC</b>	volatile organic compounds
<b>WHMIS</b>	Workplace Hazardous Materials Information System
<b>WHO</b>	World Health Organization

**SDS Status:** *The information contained herein relates only to the specific material identified. Franklin Paint Company believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Franklin Paint Company urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.*