

**Hulk System FS 101 (Barrel in a Box)**

SDS Number: HBFS101C

Revision Date: 3/14/2018

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## 1 PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

Wechem, Inc  
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Harahan, LA 70123

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**Product Name:** Hulk System FS 101 (Barrel in a Box)  
**Revision Date:** 3/14/2018  
**SDS Number:** HBFS101C  
**Product Code:** HBFS101

Emergency Telephone Number:  
INFOTRAC  
1-800-535-5053

## 2 HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Physical, Flammable Liquids, 4  
Health, Acute toxicity, 5 Oral  
Health, Skin corrosion/irritation, 2  
Health, Serious Eye Damage/Eye Irritation, 2 B  
Health, Specific target organ toxicity - Single exposure, 3

### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** **WARNING**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H227 - Combustible liquid  
H303 - May be harmful if swallowed  
H315 - Causes skin irritation  
H320 - Causes eye irritation  
H335 - May cause respiratory irritation

**GHS Precautionary Statements:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

**Hazards not Otherwise Classified (HNOC) or not Covered by GHS**

<b>Route of Entry:</b>	Skin absorption, ingestion, inhalation, eye
<b>Target Organs:</b>	NA
<b>Inhalation:</b>	Inhalation of generated mist can cause nasal and respiratory irritation or damage to respiratory tract.
<b>Skin Contact:</b>	Causes irritation
<b>Eye Contact:</b>	Causes irritation and burning
<b>Ingestion:</b>	Harmful or fatal if swallowed.

**3 COMPOSITION/INFORMATION OF INGREDIENTS****Ingredients:**

Cas#	%	Chemical Name
111-76-2	60-100%	Ethylene glycol monobutyl ether
0		Surfactant Blend
57-55-6	1-4%	Propylene glycol

**4 FIRST AID MEASURES**

<b>Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get immediate medical advice/attention.
<b>Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get immediate medical advice/attention.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

**5 FIRE FIGHTING MEASURES**

<b>Flammability:</b>	NA
<b>Flash Point:</b>	165 Deg. F.
<b>Flash Point Method:</b>	PMCC
<b>Burning Rate:</b>	ND
<b>Autoignition Temp:</b>	ND
<b>LEL:</b>	ND
<b>UEL:</b>	ND

Extinguishing media: Foam, dry chemical, carbon dioxide, water

Special fire fighting procedures: Keep upwind of fire, wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA)

Unusual Fire &amp; Explosion Hazards: None

**6 ACCIDENTAL RELEASE MEASURES**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes.

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Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Scoop up material and place in a disposal container. Provide ventilation.

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### HANDLING AND STORAGE

#### Handling Precautions:

Keep away from sources of ignition-No smoking. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

#### Storage Requirements:

Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Keep out of reach of children. Keep container tightly closed and in a well-ventilated place. Do not store at temperatures above 49 C/ 120 F. Store in a cool dry, climate controlled area, away from incompatibles, sparks and open flame.

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### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

#### Personal Protective Equipment:

HMIS PP, B | Goggles, Gloves  
Respiratory Protection: None required under normal use conditions.  
Protective gloves: Chemical resistant, rubber, PVC  
Eye protection: Safety glasses/goggles

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Do not eat, smoke, or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

Ethylene glycol monobutyl ether cas#:(111-76-2) [60-100%]

Components with workplace control parameters

TWA 20 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation

Confirmed animal carcinogen with unknown relevance to humans

TWA 5 ppm USA. NIOSH Recommended Exposure Limits  
24 mg/m3

Potential for dermal absorption

TWA 50 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
240 mg/m3

Skin designation

The value in mg/m3 is approximate.

TWA 25 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
120 mg/m3

Skin notation

Propylene glycol cas#:(57-55-6) [1-4%]

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Components with workplace control parameters

TWA 10 mg/m<sup>3</sup> USA. Workplace Environmental Exposure Levels  
(WEEL)

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### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark purple liquid	<b>Odor:</b>	Characteristic
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Complete
<b>Spec Grav./Density:</b>	(H <sub>2</sub> O=1): 0.94 +/- 0.1	<b>Flash Point:</b>	73.9 C (165 F)
<b>pH:</b>	7.5 +/- 1	<b>Vapor Density:</b>	(Air=1): ND
		<b>VOC:</b>	~ 79 %

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### STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable. No dangerous reaction known under conditions of normal use.
<b>Conditions to Avoid:</b>	Heat. Incompatible materials.
<b>Materials to Avoid:</b>	Strong oxidizers
<b>Hazardous Decomposition:</b>	Carbon dioxide, carbon monoxide
<b>Hazardous Polymerization:</b>	Will not occur

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### TOXICOLOGICAL INFORMATION

Data summary for the components are as follows:

Surfactant Blend (Trade Secret)  
Ingestion LD<sub>50</sub> >1,400 mg/kg (Rat)

This product is not classified as a carcinogen or a mutagen.

Ethylene glycol monobutyl ether cas#:(111-76-2) [60-100%]

Information on toxicological effects

Acute toxicity:

LD<sub>50</sub> Oral - rat - 470 mg/kg

LC<sub>50</sub> Inhalation - rat - 4 h - 450 ppm Remarks: Behavioral:Ataxia. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

LD<sub>50</sub> Dermal - rabbit - 220 mg/kg

LD<sub>50</sub> Intraperitoneal - rat - 220 mg/kg

LD<sub>50</sub> Intravenous - rat - 307 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Open irritation test

Serious eye damage/eye irritation: Eyes - rabbit Result: Moderate eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

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## Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

## Additional Information:

RTECS: KJ8575000

Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis

Stomach - Irregularities - Based on Human Evidence

Propylene glycol cas#:(57-55-6) [1-4%]

## Information on toxicological effects

## Acute toxicity:

Oral LD50 LD50 Oral - rat - 20,000 mg/kg

Inhalation LC50 no data available

Dermal LD50 LD50 Dermal - rabbit - 20,800 mg/kg

Other information on acute toxicity LD50 Intramuscular - rat - 14 g/kg

LD50 Intravenous - dog - 26 g/kg

LD50 Intraperitoneal - rat - 6,660 mg/kg

LD50 Subcutaneous - rat - 22,500 mg/kg

LD50 Intravenous - rat - 6,423 mg/kg

LD50 Intraperitoneal - mouse - 9,718 mg/kg

Remarks: Lungs, Thorax, or Respiration: Chronic pulmonary edema. Kidney, Ureter, Bladder: Changes in both tubules and glomeruli. Blood: Changes in spleen.

LD50 Subcutaneous - mouse - 17,370 mg/kg

Remarks: Behavioral: Change in motor activity (specific assay). Behavioral: Muscle contraction or spasticity. Cyanosis

LD50 Intravenous - mouse - 6,630 mg/kg

LD50 Intravenous - rabbit - 6,500 mg/kg

Skin corrosion/irritation: Skin - Human - Mild skin irritation - 7 d

Serious eye damage/eye irritation: Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

## Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):

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no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):  
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression

Synergistic effects: no data available

Additional Information:

RTECS: TY2000000

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**ECOLOGICAL INFORMATION**

Data summary for the components is as follows:

Surfactant Blend ( Trade Secret)

Fish LC50 1-10 mg/l 96 h Fathead minnow (Pimephales promelas)

Daphnia EC50 1-10 mg/l 48h Daphnia magna

Algae EC50 1-10 mg/l 96h Algae

Ethylene glycol monobutyl ether cas#:(111-76-2) [60-100%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - other fish - 220 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h.

other aquatic invertebrates

Persistence and degradability: no data available

Ratio BOD/ThBOD 88 %

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Propylene glycol cas#:(57-55-6) [1-4%]

Information on ecological effects

Toxicity:

Toxicity to fish mortality NOEC - Pimephales promelas (fathead minnow) - 52,930 mg/l - 96 h.

Toxicity to daphnia mortality NOEC - Daphnia - 13,020 mg/l - 48 h.

and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - &gt; 10,000 mg/l - 48 h

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Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

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**DISPOSAL CONSIDERATIONS**

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

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**TRANSPORT INFORMATION**

Proper Shipping Name: Not Regulated

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**REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

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Ethylene glycol monobutyl ether (111-76-2) [60-100%] HAP, MASS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Surfactant Blend (0) [n/a%]

Propylene glycol (57-55-6) [1-4%] HAP, PA, TSCA

This product is not for sale in CA,UT,OTC or LADCO States.

Regulatory CODE Descriptions

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HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

SARA313 = SARA 313 Title III Toxic Chemicals

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

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**OTHER INFORMATION**

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

N/A = Not available N/D = Not determined