

Hulk System FS 101 (Formulation Base)

MSDS Number: HFS101B

Revision Date: 9/25/2014

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1	PRODUCT AND COMPANY IDENTIFICATION
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Manufacturer

Wechem, Inc
5734 Susitna Dr
Harahan, LA 70123

Contact: Ligia M. Hernandez
Phone: 504-733-1152
Fax: 504-733-2218
Web: www.wechem.com

Product Name: Hulk System FS 101 (Formulation Base)
Revision Date: 9/25/2014
MSDS Number: HFS101B
Product Code: HFS101

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

2	HAZARDS IDENTIFICATION
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Route of Entry: Skin absorption, ingestion, inhalation, eye

Target Organs: NA

Inhalation: Inhalation of generated mist can cause nasal and respiratory irritation or damage to respiratory tract.

Skin Contact: Causes irritation

Eye Contact: Causes irritation and burning

Ingestion: Harmful or fatal if swallowed.

PERSONAL PROTECTION INDEX											
A											
B		+									
C		+		+							
D		+		+							
E		+		+							
F		+		+		+					
G		+		+		+					
H		+		+		+		+		+	
I		+		+		+					
J		+		+		+		+		+	
K		+		+		+		+		+	
X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions										
A		n		o		p		q		r	
t		u		w		y		z		Additional Information	
<small> Safety Glasses Splash Goggles Face Shield & Eye Protection Gloves Boots Synthetic Fabric Full Suit Dust Respirator Vapor Respirator Dust & Vapor Respirator Full Face Respirator Airline Hood or More </small>											

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GHS Signal Word:
WARNING

GHS Hazard Pictograms:



GHS Classifications:

- 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 Phrases:

- 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.
- 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.

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Chemical Name	Perc.	OSHA PEL (ppm)	ACGIH TLV(ppm)	Carcin. Ref.
111-76-2	Ethylene glycol monobutyl ether	60-100%	50	20	D
NA	Surfactant Blend	Trade Secret	NA	NA	D
57-55-6	Propylene glycol	1-4%	NA	NA	D

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4 FIRST AID MEASURES

- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention.
- Skin Contact:** 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.
- Eye Contact:** 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.
- Ingestion:** 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

- Flammability:** NA
- Flash Point:** 165 Deg. F.
- Flash Point Method:** PMCC
- Burning Rate:** ND
- Autoignition Temp:** ND
- LEL:** ND
- UEL:** 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 & 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.

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.

7 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 Equip:

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.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Dark purple liquid

Physical State:

Liquid

Spec Grav./Density:(H₂O=1): 0.94 +/- 0.1**pH:**

7.5 +/- 1

Odor:

Characteristic

Solubility:

Complete

Flash Point:

73.9 C (165 F)

Vapor Density:

(Air=1): ND

VOC:

~ 79 %

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STABILITY AND REACTIVITY

Stability:

Stable. No dangerous reaction known under conditions of normal use.

Conditions to Avoid:

Heat. Incompatible materials.

Materials to Avoid:

Strong oxidizers

Hazardous Decomposition:

Carbon dioxide, carbon monoxide

Hazardous Polymerization:

Will not occur

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TOXICOLOGICAL INFORMATION

Data summary for the components are as follows:

Ethylene glycol monobutyl ether (111-76-2)

Oral LD50 470 mg/kg (Rat)

Dermal LD50 2270 mg/kg (Rat)

Dermal LD50 mg/kg (Rabbit)

Inhalation LC50 2.21 mg/L 4h, (Rat)

Inhalation LC50 450 ppm 4h, (Rat)

Propylene Glycol (57-55-6)

Ingestion LD50 21,000 mg/kg (Rat)

Inhalation LC50 >105 ppm, 8 h (Rat)

Dermal LD50 20,800 mg/kg (Rat)

Surfactant Blend (Trade Secret)

Ingestion LD50 >1,400 mg/kg (Rat)

Calculated Overall Chemical Acute toxicity Values

Inhalation LC50 2.31 mg/L 4h, (Rat)

Oral LD50 500.23 mg/kg (Rat)

Dermal 234.24 mg/kg (Rabbit)

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

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ECOLOGICAL INFORMATION

Data summary for the components is as follows:

Propylene glycol (57-55-6)

Fish LC50 55,770 mg/l 96 h Fathead minnow (*Pimephales promelas*)

Daphnia EC50 >10,000 mg/l 48 h Daphnia

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

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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/PERC) / CODES

*Ethylene glycol monobutyl ether (111762 60-100%) HAP, MASS, OSHAWAC, PA, SARA313, TSCA, TXAIR

*Propylene glycol (57556 1-4%) HAP, PA, TSCA

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

REGULATORY KEY DESCRIPTIONS

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

OSHA = OSHA workplace Air Contaminants

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

SARA313 = SARA 313 Title III Toxic Chemicals

TXAIR = TX Air Contaminants with Health Effects Screening Level

TSCA = Toxic Substances Control Act

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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. ** Chemical listed as carcinogen or potential carcinogen. [a] NTP [b] IARC

Monograph [c] OSHA [d] Not listed [e] Animal Data only

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