

## Hulk System # 109LF

MSDS Number: H109LFD

Revision Date: 11/21/2014

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<b>1</b>	<b>PRODUCT AND COMPANY IDENTIFICATION</b>
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**Manufacturer**

Wechem, Inc  
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**Product Name:** Hulk System # 109LF  
**Revision Date:** 11/21/2014  
**MSDS Number:** H109LFD  
**Product Code:** H109LF  
**Product Use:** Industrial Cleaner

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

<b>2</b>	<b>HAZARDS IDENTIFICATION</b>
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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						G						
B						H						
C						I						
D						J						
E						K						
F						X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions					
A	n	O	P	q	r	S						
<small>Safety Glasses</small>	<small>Splash Goggles</small>	<small>Face Shield &amp; Eye Protection</small>	<small>Gloves</small>	<small>Boots</small>	<small>Respirator</small>	<small>Full Suit</small>						
t	U	W	Y	Z	<small>Additional Information</small>							
<small>Quilt Respirator</small>	<small>Vapor Respirator</small>	<small>Quilt &amp; Vapor Respirator</small>	<small>Full Face Respirator</small>	<small>Airline Hood or Hood</small>								

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GHS Signal Word:  
DANGER

GHS Hazard Pictograms:



GHS Classifications:

- Health, Acute toxicity, 4 Oral
- Health, Skin corrosion/irritation, 1 B
- Health, Specific target organ toxicity - Single exposure, 3
- Health, Specific target organ toxicity - Single exposure, 2

GHS Phrases:

- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage
- H335 - May cause respiratory irritation
- H371 - May cause damage to organs

GHS Precautionary Statements:

- 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.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- 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.
111762	Glycol surfactant Mixture*	>30	NA	NA	D
*Ethylene Glycol Monobutyl Ether					
141-43-5	Ethanol, 2-amino-	15-40%	3	3	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:** No flash below 200 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 &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.

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:** Corrosive liquid. 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 practices.

**Storage Requirements:** Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Corrosive liquid. Handle all containers carefully. Keep out of reach of children.

Keep container tightly closed and in a well-ventilated place. Store locked up.

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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  
 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

<b>Appearance:</b>	Dark blue liquid	<b>Odor:</b>	Characteristic
<b>Physical State:</b>	Liquid	<b>Molecular Formula:</b>	NA
<b>Particle Size:</b>	NA	<b>Solubility:</b>	Complete
<b>Spec Grav./Density:</b>	(H2O=1): 0.97 +/- 0.1	<b>Softening Point:</b>	NA
<b>Viscosity:</b>	NA	<b>Percent Volatile:</b>	NA
<b>Sat. Vap. Conc.:</b>	NA	<b>Heat Value:</b>	NA
<b>Boiling Point:</b>	NA	<b>Freezing/Melting Pt.:</b>	NA
<b>Flammability:</b>	Non Flammable	<b>Flash Point:</b>	No flash below 200 Deg. F.
<b>Vapor Pressure:</b>	ND	<b>Octanol:</b>	NA
<b>pH:</b>	> 12	<b>Vapor Density:</b>	(Air=1): ND
<b>Evap. Rate:</b>	NA	<b>VOC:</b>	~ 37 %
<b>Molecular weight:</b>	NA	<b>Bulk Density:</b>	NA

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### STABILITY AND REACTIVITY

**Stability:** Stable. No dangerous reaction known under conditions of normal use.

**Conditions to Avoid:** Incompatible materials.

**Materials to Avoid:** Strong oxidizers, acids

**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 220 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 &gt;105 ppm , 8 h (Rat)

Dermal LD50 20,800 mg/kg (Rat)

Surfactant Blend ( Trade Secret)

Ingestion LD50 &gt;1,400 mg/kg (Rat)

2-aminoethanol (141-43-5)

Oral LD50 1200-2700 mg/kg (Rat-Male, female)

Dermal LD50 1000-2500 mg/kg (Rabbit)

Calculated overall Chemical Acute Toxicity Values

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

Oral LD50 749.21 mg/kg, (Rat)

Dermal LD50 367.55 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 &gt;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

2-aminoethanol (141-43-5)

Fish LC50 150 mg/L , 96h Freshwater

Bacteria IC50 110 mg/L, 17h

Daphnia EC50 65 mg/L, 48h

Algae IC50 22 mg/L, 72h

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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: UN 1760, Corrosive Liquids, N.O.S., (Ethanalamine), 8, PG III

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### REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

\*Ethylene glycol monobutyl ether (111762 >30%) HAP, MASS, OSHAWAC, PA, SARA313, TXAIR

\*Ethanol, 2-amino- (141435 15-40%) HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

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

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