

## Hulk System # 105 RTU

MSDS Number: H105RTUG

Revision Date: 7/31/2014

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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 # 105 RTU  
**Revision Date:** 7/31/2014  
**MSDS Number:** H105RTUG  
**Product Code:** H105RTU

<b>2</b>	<b>HAZARDS IDENTIFICATION</b>
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**Route of Entry:** Skin absorption, 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										
													Additional information									
t		u		w		y		z														

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GHS Signal Word:  
WARNING

GHS Hazard Pictograms:



GHS Classifications:  
Health, Aspiration hazard, 2  
Health, Skin corrosion/irritation, 2  
Health, Serious Eye Damage/Eye Irritation, 2 B

GHS Phrases:  
H305 - May be harmful if swallowed and enters airways  
H315 - Causes skin irritation  
H320 - Causes eye irritation

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.  
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.

<b>3</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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**Ingredients:**

Cas #	Chemical Name	Perc.	OSHA PEL (ppm)	ACGIH TLV(ppm)	Carcin. Ref.
111762	Glycol Surfactant Mixture*	<10	NA	NA	D

\*Ethylene Glycol Monobutyl Ether

<b>4</b>	<b>FIRST AID MEASURES</b>
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**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention.

**Skin Contact:** Wash off with soap and water. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops and persists.

**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.

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### 5 FIRE FIGHTING MEASURES

**Flammability:** NA  
**Flash Point:** > 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: Full fire-fighting turn-out 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:** 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. Store in a dry, cool area away from sparks and open flame. Keep out of reach of children.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Ventilation Requirement: Local exhaust  
**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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### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Luminous green 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): 0.99 +/- 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>	> 250 Deg. F.	<b>Freezing/Melting Pt.:</b>	NA
<b>Vapor Pressure:</b>	ND	<b>Flash Point:</b>	> 200 Deg. F.
<b>pH:</b>	11.5 +/- 1	<b>Octanol:</b>	NA
<b>Evap. Rate:</b>	NA	<b>Vapor Density:</b>	(Air=1): ND
<b>Molecular weight:</b>	NA	<b>VOC:</b>	NA
		<b>Bulk Density:</b>	NA

### 10 STABILITY AND REACTIVITY

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

### 11 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)

Ethanol, 2-amino- (141-43-5)  
 Oral LD50 1200 to 2700 mg/kg (Rat Male, Female)  
 Dermal LD50 1000 to 2500 mg/kg (Rabbit)

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### ECOLOGICAL INFORMATION

Data summary for the components are 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

Ethanol, 2-amino- (141-43-5)  
Fish LC50 150 mg/L fresh water, 96 h  
Bacteria IC50 110 mg/L 17h  
Daphnia EC50 65 mg/L 48h  
Algae IC50 22 mg/L 72h

Readily Biodegradable  
Bioaccumulative potential: LogP (-1.31) BCF (0.99) Potential (Low)

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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 &lt;10%) HAP, MASS, OSHAWAC, PA, SARA313, TXAIR

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

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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