



Hot All in 1

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Hot All in 1**

Other means of identification : 00161, 90161, 00164, 90164, 00163

Recommended use of the chemical and restrictions on use

: Fuel oil treatment.  
No restrictions on use known.

Chemical family

: Mixture.

Name, address, and telephone number  
of the supplier:

**FPPF Chemical Company, Inc.**

100 Dingens St.  
Buffalo, NY, USA  
14206

Supplier's Telephone # : (800) 735 3773

24 Hr. Emergency Tel # : PERS: North America 1-800-633-8253; International : +1-801-629-0667  
Contract No.: 8027

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Amber liquid. Mineral oil odor

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification

Flammable Liquid - Category 4

Acute toxicity, oral - Category 4

Acute toxicity, dermal - Category 3

Acute Toxicity, inhalation - Category 3 (vapor)

Skin Irritation - Category 2

Serious eye damage/eye irritation - Category 2A

Aspiration Toxicity - Category 1

Reproductive Toxicity - Category 1B Developmental

Carcinogenicity- Category 2

Specific target organ toxicity, single exposure - Category 3 (narcotic effects)

Specific target organ toxicity, single exposure - Category 3 (respiratory)

Label elements

Hazard pictogram(s)



Signal Word

DANGER!



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### Hazard statement(s)

Combustible liquid.  
Harmful if swallowed.  
Toxic in contact with skin.  
Toxic if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness and dizziness.  
May be fatal if swallowed and enters airways.  
Suspected of causing cancer.  
Suspected of damaging the unborn child.

### Precautionary statement(s)

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking  
Avoid breathing vapors or mists.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/clothing and eye/face protection.  
Wash hands and face thoroughly after handling.

In case of fire, use water fog, dry chemical, CO<sub>2</sub> or 'alcohol' foam.  
IF EXPOSED or concerned: Get medical attention/advice.  
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash before re-use.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Rinse mouth.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Other hazards

Other hazards which do not result in classification: May be sensitive to static discharge. Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Glycol	Not available	Proprietary	Proprietary
Light aromatic naphtha	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 1	Not available	Proprietary	Proprietary



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Aromatic hydrocarbon 2	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 3	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 4	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 5	Not available	Proprietary	Proprietary
Fatty acid	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 6	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 7	Not available	Proprietary	Proprietary

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Rinse mouth. Aspiration hazard . Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.



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### Most important symptoms and effects, both acute and delayed

- : IF exposed or concerned: Get medical attention/advice.  
Harmful if swallowed. Symptoms may include severe abdominal pain, vomiting, burns and bleeding. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
  - Toxic in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation.
  - Toxic if inhaled. Symptoms may include coughing, choking and wheezing.  
May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.
  - May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
  - Causes skin irritation. Symptoms may include redness, itching and swelling.
  - Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.
  - May be fatal if swallowed and enters airways. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing.  
Symptoms include coughing, shortness of breath and wheezing.
  - Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.
  - Suspected of damaging the unborn child. Symptoms in offspring may include reduced fetal weight, behavioral effects, delayed skeletal formation and hearing loss.
- Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

### Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Provide general supportive measures and treat symptomatically. Show this safety data sheet to the doctor in attendance.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

*Suitable extinguishing media*

- : Dry chemical, foam, carbon dioxide and water fog.

*Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

### Special hazards arising from the substance or mixture / Conditions of flammability

- : Combustible liquid. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. Vapors may travel considerable distance to a source of ignition and flash back. Vapours may be heavier than air and may collect in confined and low-lying areas. Product may float, and be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

### Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquid - Category 4

### Hazardous combustion products

- : Carbon oxides. Nitrogen oxides. Reactive hydrocarbons. Aldehydes. Other irritating fumes and smoke.

### Special protective equipment and precautions for firefighters

*Protective equipment for fire-fighters*



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- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : Evacuate personnel to safe areas. Keep all other personnel upwind and away from the spill/release. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

### Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Bond and ground transfer containers and equipment to avoid static accumulation. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

### Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): See section 15.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Keep away from flames and hot surfaces. - No smoking. Wear protective gloves/clothing and eye/face protection. Wash hands thoroughly after handling. Avoid breathing mist or vapours. Do not eat, drink or smoke when using this product. Do not ingest. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials.

- Conditions for safe storage** : Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up. Take measures to prevent the build up of electrostatic charge. Store away from incompatibles and out of direct sunlight. After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides. Rate of peroxide formation is not known. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

- Incompatible materials** : Strong oxidizing agents; Acids; Perchloric acid; Reactive metals; Bases.



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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Glycol	20 ppm	N/Av	50 ppm (skin)	N/Av
Light aromatic naphtha	N/Av	N/Av	N/Av	N/Av
Aromatic hydrocarbon 1	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Aromatic hydrocarbon 2	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Aromatic hydrocarbon 3	100 ppm	150 ppm	100 ppm (435 mg/m <sup>3</sup> )	N/Av
Aromatic hydrocarbon 4	25 ppm	N/Av	25 ppm (final rule limit)	N/Av
Aromatic hydrocarbon 5	50 ppm	N/Av	50 ppm ; 245 mg/m <sup>3</sup> (Skin)	N/Av
Fatty acid	N/Av	N/Av	N/Av	N/Av
Aromatic hydrocarbon 6	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av
Aromatic hydrocarbon 7	20 ppm	N/Av	100 ppm ; 435 mg/m <sup>3</sup>	125ppm; 545mg/m <sup>3</sup>

#### Exposure controls

##### Ventilation and engineering measures

- : Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use non-sparking equipment. In case of insufficient ventilation wear suitable respiratory equipment.

##### Respiratory protection

- : If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

##### Skin protection

- : Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

##### Eye / face protection

- : Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.

##### Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

##### General hygiene considerations



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: Avoid breathing mist or vapor. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** : Liquid  
**Colour** : amber  
**Odour** : Mineral oil  
**Odour threshold** : N/Av  
**pH** : N/Av  
**Melting Point/Freezing point** : N/Av  
**Initial boiling point and boiling range**  
: 113 - 116 °C / 235 - 240°F  
**Flash point** : >60°C / >140°F  
**Flashpoint (Method)** : Tag closed cup  
**Evaporation rate (BuAe = 1)** : Slower than n-butyl acetate  
**Flammability** : Flammable.  
**Lower explosion or flammability limit (% by vol.)**  
: N/Av  
**Upper explosion or flammability limit (% by vol.)**  
: N/Av  
**Oxidizing properties** : None.  
**Explosive properties** : N/Av  
**Vapour pressure** : N/Av  
**Relative vapour density** : >1  
**Relative density / Specific gravity**  
: 0.90  
**Solubility in water** : Slightly soluble.  
**Other solubility(ies)** : N/Av  
**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**  
: N/Av  
**Auto-ignition temperature** : N/Av  
**Decomposition temperature** : N/Av  
**Viscosity** : N/Av  
**Particle characteristics** : N/Av  
**Volatiles (% by weight)** : 87%(approximately)  
**Volatile organic Compounds (VOC's)**  
: N/Av  
**Absolute pressure of container**  
: N/Av  
**Flame projection length** : N/Av  
**Other physical/chemical comments**  
: None reported by the manufacturer.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.  
**Chemical stability** : Stable under normal conditions.



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### Possibility of hazardous reactions

- : Hazardous polymerization will not occur. May be sensitive to static discharge. May form explosive peroxides during prolonged exposure to air and heat. Rate of peroxide formation is not known.

### Conditions to avoid

- : Keep away from flames and hot surfaces. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharge. Avoid contact with incompatible materials.

### Incompatible materials

- : Strong oxidizing agents; Acids; Perchloric acid; Bases; Reactive metals

### Hazardous decomposition products

- : None reported by the manufacturer. Refer also to hazardous combustion products, Section 5.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: YES

### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

- : Toxic if inhaled. Inhalation may cause respiratory irritation and central nervous system depression. Symptoms include: Upper respiratory irritation, coughing, sneezing, staggering gait, giddiness, drowsiness, slurred speech, nausea, and possible nervous system depression.

##### *Sign and symptoms ingestion*

- : Harmful if swallowed. Ingestion may cause symptoms similar to inhalation. Symptoms may include severe abdominal pain, vomiting, burns and bleeding. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. May be fatal if swallowed and enters airways. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Symptoms include coughing, shortness of breath and wheezing.

##### *Sign and symptoms skin*

- : Toxic in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation. Causes skin irritation. Symptoms include: Dryness, itching, cracking, burning, redness and swelling.

##### *Sign and symptoms eyes*

- : Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

#### Potential Chronic Health Effects

- : Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

#### Mutagenicity

- : Not expected to be mutagenic in humans.





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### Carcinogenicity

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification Carcinogenicity- Category 2 Suspected of causing cancer.

Contains Cumene. Cumene is classified as possibly carcinogenic by IARC (Group 2B). Contains Ethylbenzene is classified as carcinogenic by IARC (Group 2B) and ACGIH (Category A3).

### Reproductive effects & Teratogenicity

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification Reproductive Toxicity - Category 2 Suspected of damaging the unborn child. Developmental

Contains Xylenes. Xylenes may cause fetotoxic effects (e.g. reduced fetal weight, delayed ossification, behavioral effects) at doses which are not maternally toxic, based on animal data.

### Sensitization to material

: Not expected to be a skin sensitizer.  
Not expected to be a respiratory sensitizer.

### Specific target organ effects

: Eyes, skin, respiratory system, digestive system, central nervous system, blood system.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification

Specific target organ toxicity, single exposure Category 3 May cause drowsiness and dizziness. May cause respiratory irritation.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

### Synergistic materials

: None reported by the manufacturer.

### Toxicological data

: The calculated ATE values for this mixture are:  
ATE oral = 1041.6mg/kg  
ATE dermal = 545.7mg/kg  
ATE inhalation (vapours) = 3.7mg/L/4H

See below for individual ingredient acute toxicity data.



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<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Glycol	450 ppm (2.175 mg/L)	530 mg/kg	400 - 500 mg/kg
Light aromatic solvent naphtha	>17.7mg/L/4H (vapour)	8400 mg/kg	>3160 mg/kg
Aromatic hydrocarbon 1	18 mg/L	5000 mg/kg	> 3160 mg/kg
Aromatic hydrocarbon 2	24 mg/L	23 000 mg/kg	>3160mg/kg
Aromatic hydrocarbon 3	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg
Aromatic hydrocarbon 4	18 - 24mg/kg (based on similar substances)	8970 mg/kg	>3160mg/kg (based on similar substances)
Aromatic hydrocarbon 5	8000 ppm; 39 mg/L	2260 mg/kg	10 627 mg/kg
Fatty acid	N/Av	>19200 mg/kg	>3000mg/kg guinea pig
Heavy aromatic solvent naphtha	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 mg/kg
Aromatic hydrocarbon 7	4000 ppm (17.4mg/L) (vapour)	3500 mg/kg	15,380 mg/kg

**Other important toxicological hazards**

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

: No data is available on the product itself.

See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Glycol	Proprietary	1490 mg/L (Lepomis macrochirus)	>100mg/L (Zebra fish)	none
Light aromatic naphtha	Proprietary	9.22 mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 1	Proprietary	7.19 - 8.28 mg/L (Fathead minnow)	N/Av	None.
Aromatic hydrocarbon 2	Proprietary	12.52 mg/L (Goldfish)	N/Av	None.
Aromatic hydrocarbon 3	Proprietary	8.2 mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 4	Proprietary	7.72mg/L (Fathead minnow) (Read-across)	N/Av	None.
Aromatic hydrocarbon 5	Proprietary	4.5mg/L (Rainbow trout)	0.38mg/L QSAR	None.
Fatty acid	Proprietary	205 mg/L (Fathead minnow)	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	3.6 mg/L (Rainbow trout)	N/Av	none
Aromatic hydrocarbon 7	Proprietary	4.2 mg/L (Rainbow trout)	1.13mg/L(30 day) QSAR (no species given)	none



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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Glycol	Proprietary	835mg/L (Daphnia magna)	100mg/L (Daphnia magna)	none
Light aromatic naphtha	Proprietary	6.16 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 1	Proprietary	6.14 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 2	Proprietary	6 mg/L (Daphnia magna)	0.4mg/L	None.
Aromatic hydrocarbon 3	Proprietary	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 4	Proprietary	2.7mg/L Daphnia magna (Water flea) (Read-across)	0.4mg/L (Read-across)	None.
Aromatic hydrocarbon 5	Proprietary	2.14 mg/L (Daphnia magna)	0.35mg/L	None.
Fatty acid	Proprietary	N/Av	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	1.1 mg/L Water flea	N/Av	none
Aromatic hydrocarbon 7	Proprietary	1.81 mg/L/ Water flea	N/Av	none

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Glycol	Proprietary	911mg/L/72hr	286mg/L/72hr	none
Light aromatic naphtha	Proprietary	N/Av	N/Av	N/Av
Aromatic hydrocarbon 1	Proprietary	N/Av	N/Av	None.
Aromatic hydrocarbon 2	Proprietary	3.191mg/L QSAR	N/Av	None.
Aromatic hydrocarbon 3	Proprietary	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.
Aromatic hydrocarbon 4	Proprietary	5.7mg/L/72hr (Green algae) (Read-across)	0.38mg/L/72hr (Read-across)	None.
Aromatic hydrocarbon 5	Proprietary	1.29mg/L/72hr (Green algae)	0.73mg/L	None.
Fatty acid	Proprietary	N/Av	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	7.2 mg/L/72 hours (Green algae)	0.22 mg/L/72 hours (Green algae)	none
Aromatic hydrocarbon 7	Proprietary	3.6 mg/L/96 hours (Selanastrum capricornatum)	3.4mg/L	none

### Persistence and degradability

: No data is available on the product itself.

### Bioaccumulation potential

: No data is available on the product itself.

See the following data for ingredient information.



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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Light aromatic naphtha	2.1 - 6(calculated)	10 - 2500(calculated)
Glycol	0.81 at 25 °C	0.97
Aromatic hydrocarbon 1	3.78	31 - 275
Aromatic hydrocarbon 2	3.6 - 3.93	23 - 328
Aromatic hydrocarbon 3	3.12 - 3.2	0.6 - 15
Aromatic hydrocarbon 5	3.55 at 23 °C	224
Fatty acid	7.64	10(calculated)
Aromatic hydrocarbon 6	>3 - < 6.5	No information available.
Aromatic hydrocarbon 4	3.63	42 - 328
Aromatic hydrocarbon 7 (CAS Proprietary)	3.15	1.1 - 1.5

**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**

: The ecological characteristics of this product have not been fully investigated. Contains material that may be harmful in the environment. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.




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### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	NA1993	Combustible liquid, n.o.s. (Aromatic naphtha )	Combustible.	III	
<b>49CFR/DOT Additional information</b>	Not regulated for road or rail shipment if packaged in non-bulk containers (450 Litres or less each). The 'label' appearing here is the placard to be used for bulk shipments. This product meets the criteria for an environmentally hazardous material according to the IMDG Code.				
TDG	None.	Not regulated.	not regulated	none	none
<b>TDG Additional information</b>	This product meets the criteria for an environmentally hazardous material according to the IMDG Code.				
ICAO/IATA	None.	Not regulated.	not regulated	none	none
<b>ICAO/IATA Additional information</b>	None.				
IMDG	None.	Not regulated.	not regulated	none	none
<b>IMDG Additional information</b>	None.				

**Special precautions for user** : Keep away from heat, sparks and open flame - No smoking.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:



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Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de Minimis Concentration
Glycol	Proprietary	Yes	N/Ap	N/Av	No	No
Light aromatic naphtha	Proprietary	Yes	N/Ap	N/Ap	No	No
Aromatic hydrocarbon 1	Proprietary	Yes	N/Ap	N/Ap	Yes	No
Aromatic hydrocarbon 2	Proprietary	Yes	N/Ap	N/Av	No	No
Aromatic hydrocarbon 3	Proprietary	Yes	100 lb/ 45.4 kg	None.	Yes	No
Aromatic hydrocarbon 4	Proprietary	Yes	N/Ap	N/Ap	No	No
Aromatic hydrocarbon 5	Proprietary	Yes	5000 lb/ 2270 kg	N/Ap	Yes	No
Fatty acid	Proprietary	Yes	N/Ap	N/Av	No	No
Aromatic hydrocarbon 6	Proprietary	Yes	N/Ap	N/Av	No	No
Aromatic hydrocarbon 7	Proprietary	Yes	1000 lb/ 454 kg	N/Ap	Yes	Yes

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Acute toxicity; Skin irritation; Eye irritation; Aspiration hazard; Carcinogenicity ; Reproductive toxicity; Specific target organ toxicity, single exposure .

### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Glycol	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Light aromatic solvent naphtha	Proprietary	No	Not listed	No	No	No	No	No	No
Aromatic hydrocarbon 1	Proprietary	No	Not listed	No	Yes	Yes	Yes	Yes	No
Aromatic hydrocarbon 2	Proprietary	No	Not listed	Yes	Yes	No	No	No	No
Aromatic hydrocarbon 3	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 4	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	No
Aromatic hydrocarbon 5	Proprietary	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
Fatty acid	Proprietary	No	Not listed	No	No	No	No	Yes	No
Aromatic hydrocarbon 5	Proprietary	No	Not listed	No	No	No	No	No	No
Aromatic hydrocarbon 7	Proprietary	Yes	Carcinogen:	Yes	Yes	Yes	Yes	Yes	Yes

### Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS Classification: See Section 2.



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### International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Glycol	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Light aromatic naphtha	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard
Aromatic hydrocarbon 1	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 2	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 3	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 4	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard
Aromatic hydrocarbon 5	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present <sup>4</sup>
Fatty acid	Proprietary	Proprietary	Present	Present	Present	Present	Present	HSR003153
Aromatic hydrocarbon 6	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard
Aromatic hydrocarbon 7	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present

### SECTION 16. OTHER INFORMATION

#### Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- ATE: Acute Toxicity Estimate
- AICS: Australian Inventory of Chemical Substances
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CNS: Central Nervous System
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- EC50: Effective Concentration 50%
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- IARC: International Agency for Research on Cancer
- IMDG: International Maritime Dangerous Goods
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose



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N/Ap: Not Applicable  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
NOEC: No observable effect concentration  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TPQ: Threshold Planning Quantity  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average

**Preparation Date** : 05/31/2015  
**Reviewed Date SDS**  
  
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**Revision No.** : 2

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