



Total Power

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Total Power**

Other means of identification : 00343, 90343, 00344, 00345, 00317, 90317

Recommended use of the chemical and restrictions on use

: Diesel fuel 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

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Colourless to slightly hazy liquid. Amber liquid. Slight petroleum odour.

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 3

Acute Toxicity, dermal - Category 4

Acute Toxicity, inhalation - Category 3 (vapor)

Skin Corrosion/Irritation - Category 2

Eye Damage/Irritation - Category 2B

Aspiration Toxicity - Category 1

Reproductive toxicity-Category 2 Developmental

Carcinogen - 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)

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

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 Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapors or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Wash hands thoroughly after handling.
In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.
IF exposed or concerned: Get medical attention/advice.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention.
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. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
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

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Glycol	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 1	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 2	Not available	Proprietary	Proprietary
Ester	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 3	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 4	Not available	Proprietary	Proprietary



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Aromatic hydrocarbon 5	Not available	Proprietary	Proprietary
Light aromatic naphtha	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 6	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 7	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 8	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. 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 breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only.
- Skin contact* : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: get medical advice/attention.
- 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.

Most important symptoms and effects, both acute and delayed

- : Harmful 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 impairment and lung damage. 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. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May cause drowsiness and dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Suspected of causing cancer. Suspected of damaging the unborn child. 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.



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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

- : Flammable liquid and vapor. Keep away from heat, sparks and open flames. May accumulate static charge by flow or agitation. After prolonged storage, may release explosive peroxides in the presence of air. Vapors may travel considerable distance to a source of ignition and flash back. Vapors 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 Liquids - Category 3

Hazardous combustion products

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

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

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



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- : 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 heat, sparks and open flame - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/clothing and eye/face protection. Avoid breathing mist or vapours. Wash thoroughly after handling. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. 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. 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. Take measures to prevent the build up of electrostatic charge. 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, Perchloric acid, Bases .

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</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
Aromatic hydrocarbon 1	25 ppm (Aromatic hydrocarbon 8 isomers)	N/Av	25 ppm (Aromatic hydrocarbon 8 isomers) (final rule)	N/Av
Aromatic hydrocarbon 2	25 ppm (Aromatic hydrocarbon 8 isomers)	N/Av	25 ppm (Aromatic hydrocarbon 8 isomers) (final rule)	N/Av
Ester	N/Av	N/Av	N/A	N/Av
Aromatic hydrocarbon 3	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av
Aromatic hydrocarbon 4	100 ppm	150 ppm	100 ppm (435 mg/m ³)	N/Av
Aromatic hydrocarbon 5	25 ppm	N/Av	25 ppm (final rule limit)	N/Av
Light aromatic naphtha	N/Av	N/Av	N/Av	N/Av
Aromatic hydrocarbon 6	10 ppm (skin)	N/Av	10 ppm ; 50 mg/m ³	15ppm; 75mg/m ³
Aromatic hydrocarbon 7	50 ppm	N/Av	50 ppm ; 245 mg/m ³ (Skin)	N/Av
Ethylbenzene	20 ppm	N/Av	100 ppm (435 mg/m ³)	125ppm (545mg/m ³)

Exposure controls



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Ventilation and engineering measures

: Use only outdoors or in a well-ventilated area. Use explosion-proof electrical and ventilating equipment. 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. 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

: Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. 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 : Solvent odor.
Odour threshold : N/Av
pH : N/Av
Melting Point/Freezing point : N/Av

Initial boiling point and boiling range

: >149°C / 300°F

Flash point : 48.3°C / 119°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 : <4mm Hg @ 20°C

Relative vapour density : >1

Relative density / Specific gravity

: 0.891

Solubility in water : Partially soluble.

Other solubility(ies) : N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature : N/Av



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Decomposition temperature : N/Av
Viscosity : N/Av
Particle characteristics : N/Av
Volatiles (% by weight) : 90%(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.

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 heat, sparks and flame. 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, Perchloric acid, Bases. .

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

: Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. Causes symptoms similar to those listed for inhalation. 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.



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Sign and symptoms skin : Harmful 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 or repeated contact may cause drying, cracking and defatting of the skin. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage.

Mutagenicity

: Not expected to be mutagenic in humans.

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 Aromatic hydrocarbon 6 is classified as carcinogenic by IARC (Group 2B) and NTP (Group 2 - Reasonably anticipated).

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

Contains Aromatic hydrocarbon 7 is classified as possibly carcinogenic by IARC (Group 2B)

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 1B Suspected of damaging the unborn child. Developmental

Contains Aromatic hydrocarbon 4 Xylene 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.

Not classified as specific target organ toxicity-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 = 2441.9mg/kg

ATE dermal = 1036.5mg/kg

ATE inhalation (vapours) = 6.5mg/L/4H

ATE inhalation (mists) = 1005.9mg/L/4H

See below for individual ingredient acute toxicity data.



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<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Glycol	450 ppm (2.175 mg/L)	530 mg/kg	400 - 500 mg/kg
Aromatic hydrocarbon 1	18 mg/L	5000 mg/kg	> 3160 mg/kg
Aromatic hydrocarbon 2	24 mg/L (vapour)	23 000 mg/kg	> 3160 mg/kg
Ester	> 14 mg/L	> 9600 mg/kg	> 4800 mL/kg
Aromatic hydrocarbon 3	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 mg/kg
Aromatic hydrocarbon 4	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg
Aromatic hydrocarbon 5	18 - 24 mg/L (vapour)	8970 mg/kg	> 3160 mg/kg
Light aromatic naphtha	>17.7mg/L/4H (vapour)	8400 mg/kg	>3160 mg/kg
Aromatic hydrocarbon 6	No information available.	490 mg/kg	>20,000 mg/kg
Aromatic hydrocarbon 7	8000 ppm; (39 mg/L) (vapor)	2260 mg/kg	10 627 mg/kg
Aromatic hydrocarbon 8	4000 ppm (17.4 mg/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.



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Ecotoxicity data:

<u>Ingredients</u>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Glycol	Proprietary	1490 mg/L (Bluegill)	>100mg/L (Zebra fish)	None.
Aromatic hydrocarbon 1	Proprietary	7.72 mg/L (Fathead minnow)	N/Av	None.
Aromatic hydrocarbon 2	Proprietary	12.52 mg/L (Goldfish)	N/Av	None.
Ester	Proprietary	2 mg/L (Zebra fish)	N/Av	None.
Aromatic hydrocarbon 3	Proprietary	3.6 mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 4	Proprietary	8.2 mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 5	Proprietary	7.72 mg/L (Fathead minnow) (Read-across)	N/Av	None.
Light aromatic naphtha	Proprietary	9.22 mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	0.96 mg/L (pink salmon)	0.12mg/L (40 days) (pink salmon)	None.
Aromatic hydrocarbon 7	Proprietary	4.5 mg/L (Rainbow trout)	0.38mg/L QSAR	None.
Aromatic hydrocarbon 8	Proprietary	4.2 mg/L (Rainbow trout)	1.13 mg/L(30 days)	None.

<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Glycol	Proprietary	835mg/L Daphnia magna (Water flea)	100mg/L Daphnia magna (Water flea)	None.
Aromatic hydrocarbon 1	Proprietary	3.6mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 2	Proprietary	6 mg/L (Daphnia magna)	0.4mg/L	None.
Ester	Proprietary	> 12.6 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 3	Proprietary	1.1 mg/L Water flea	N/Av	None.
Aromatic hydrocarbon 4	Proprietary	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 5	Proprietary	2.7 mg/L (Daphnia magna) (Read-across)	0.4 mg/L (Read-across)	None.
Light aromatic naphtha	Proprietary	6.16 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	3.4 mg/L/ Water flea	0.6mg/L	None.
Aromatic hydrocarbon 7	Proprietary	2.14 mg/L/24hr (Daphnia magna)	0.35mg/L	None.
Aromatic hydrocarbon 8	Proprietary	1.81 mg/L (Daphnia magna)	N/Av	None.



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<u>Ingredients</u>	CAS #	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Glycol	Proprietary	911mg/L/72hr (Green algae)	286mg/L (Green algae)	None.
Aromatic hydrocarbon 1	Proprietary	2.356mg/L/96hr QSAR	N/Av	None.
Aromatic hydrocarbon 2	Proprietary	3.191 mg/L/96hr (Green algae) (QSAR)	N/Av	None.
Ester	Proprietary	1.57 mg/L/72hr (Green algae)	12.6 mg/L/72hr	None.
Aromatic hydrocarbon 3	Proprietary	7.2 mg/L/72 hours (Green algae)	0.22 mg/L/72 hours (Green algae)	None.
Aromatic hydrocarbon 4	Proprietary	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.
Aromatic hydrocarbon 5	Proprietary	5.7 mg/L/72hr (Green algae) (Read-across)	0.38 mg/L/72hr (Read-across)	None.
Light aromatic naphtha	Proprietary	N/Av	N/Av	N/Av
Aromatic hydrocarbon 6	Proprietary	0.4mg/L/72hr (Marine diatom)	N/Av	None.
Aromatic hydrocarbon 7	Proprietary	1.29 mg/L/72hr (Green algae)	0.73mg/L	None.
Aromatic hydrocarbon 8	Proprietary	3.6 mg/L/96hr (Green algae)	3.4 mg/L/96hr	None.

Persistence and degradability

: No data is available on the product itself. The following ingredients are considered to be readily biodegradable: 2-butoxyethanol

Bioaccumulation potential

: No data is available on the product itself.

See the following data for ingredient information.

<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
Aromatic hydrocarbon 6	3.7	427
Aromatic hydrocarbon 1	3.78	31 - 275
Aromatic hydrocarbon 4	3.12 - 3.2	50 - 58
Aromatic hydrocarbon 3	2.9 - 6.1	No information available.
Aromatic hydrocarbon 2	3.6 - 3.93	23 - 328
Ester	5.24	No information available.
Aromatic hydrocarbon 5	3.63	42 - 328
Aromatic hydrocarbon 7	3.55 at 23 °C	224
Aromatic hydrocarbon 8	3.15	1.1 - 1.5
Glycol	0.81 at 25 °C	0.97

Mobility in soil

: No data is available on the product itself.



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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.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1993	FLAMMABLE LIQUID, N.O.S. (Aromatic naphtha)	3	III	
49CFR/DOT Additional information	Not regulated for road or rail shipment if packaged in non-bulk containers (450 L / 119 Gallons or less each). Refer to 49 CFR Section 173.150. This product meets the criteria for an environmentally hazardous material according to the IMDG Code.				
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Aromatic naphtha	3	III	
TDG Additional information	This material may be shipped as non-regulated material when in small means of containment (<450 Litres), provided the requirements of TDG section 1.33 are met. This product meets the criteria for an environmentally hazardous material according to the IMDG Code.				
IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Aromatic naphtha)	3	III	 
IMDG Additional information	Consult the IMDG regulations for exceptions.				
ICAO/IATA	UN1993	Flammable liquid, n.o.s. (Aromatic naphtha	3	III	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				

- Special precautions for user** : Keep away from heat, sparks and open flame - No smoking.
- Environmental hazards** : This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.



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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

<u>Ingredients</u>	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/Ap	No	No
Aromatic hydrocarbon 1	Proprietary	Yes	N/Ap	N/Ap	Yes	No
Aromatic hydrocarbon 2	Proprietary	Yes	N/Ap	N/Ap	No	No
Ester	Proprietary	Yes	N/Ap	N/Ap	No	No
Aromatic hydrocarbon 3	Proprietary	Yes	N/Ap	N/Av	No	No
Aromatic hydrocarbon 4	Proprietary	Yes	100 lb/ 45.4 kg	N/Ap	Yes	No
Aromatic hydrocarbon 5	Proprietary	Yes	N/Ap	N/Ap	No	No
Light aromatic naphtha	Proprietary	Yes	N/Ap	N/Ap	No	No
Aromatic hydrocarbon 6	Proprietary	Yes	100 lb/ 45.4 kg	N/Av	Yes	Yes
Aromatic hydrocarbon 7	Proprietary	Yes	5000 lb/ 2270 kg	N/Ap	Yes	No
Aromatic hydrocarbon 8	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 ; Carcinogenicity ;Reproductive toxicity; Specific target organ toxicity, single exposure .

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	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
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
Ester	Proprietary	No	Not listed	No	No	No	No	No	No
Aromatic hydrocarbon 3	Proprietary	No	Not listed	No	No	No	No	No	No
Aromatic hydrocarbon 4	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 5	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Light aromatic naphtha	Proprietary	No	Not listed	No	No	No	No	No	No
Aromatic hydrocarbon 6	Proprietary	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 7	Proprietary	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 8	Proprietary	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes



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Canadian Information:

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

International Information:

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

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECS</u>	<u>NewZealand IOC</u>
Glycol	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 1	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 2	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Ester	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard.
Aromatic hydrocarbon 3	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard.
Aromatic hydrocarbon 4	Proprietary	Proprietary	Present	Present	Present	Present	Present	HSR000983
Aromatic hydrocarbon 5	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.
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 6	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 7	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 8	Proprietary	Proprietary	Present	Present	(Present	Present	Present	Present



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SECTION 16. OTHER INFORMATION

Legend

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
DOT: Department of Transportation
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
N/Ap: Not Applicable /N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
NTP: National Toxicology Program
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

: 04/12/2020

Reviewed Date SDS

: 06/06/2024

Revision No.

: 2

DISCLAIMER

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