

## **SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** **Power Up Gen 49D**

**Product Use:** Diesel Fuel Lubricant

**Restrictions on Use:** Do Not Mix with Alcohol Based or Glycol Based Products

**Manufacturer:** Awsum Outcomes Inc.  
Bay 5, 409 38<sup>th</sup> Ave. NE  
Calgary, Alberta T2E 6R9  
Canada  
  
Phone 1-587 353 2000

**Supplier:** Awsum Outcomes Inc.  
Bay 5, 409 38th Ave. NE  
Calgary, Alberta T2E 6R9  
Canada  
  
Phone 1-587 353 2000

**Emergency Phone Number:** CANUTEC – 24 hr Emergency No. 1-613-996-6666  
Business Hour Number 1-587-353-2000  
(Monday through Friday 8:00am to 4:30pm MST)

## **SECTION II: HAZARDS IDENTIFICATION**

### **GHS Classification:**

Combustible liquid:	Category 4
Fatal in contact with skin:	Category 1
Fatal if swallowed:	Category 2
Toxic if inhaled (vapour):	Category 3
Causes skin irritation:	Category 2
Causes serious eye damage:	Category 1
Toxic to aquatic life:	Category 2
Suspected of causing cancer:	Category 2

### **GHS Label Element:**

Signal word :

**Warning**  
**Danger**

Hazard symbol:



Hazard statements:

H227 Combustible liquid  
H300 + H310 Fatal if swallowed or in contact with skin  
H315 Causes skin irritation  
H318 Causes serious eye damage  
H331 Toxic if inhaled  
H335 May cause respiratory irritation  
H351 Suspected of causing cancer  
H373 May cause damage to organs through prolonged or repeated exposure  
H401 Toxic to aquatic life

Other hazards:

None

Precautionary statements:

### **Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from flames and hot surfaces. No smoking.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P262 Do not get in eyes, on skin, or on clothing

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

**Response:**

P301 + P310 IF SWALLOWED Immediately call a POISON CENTER or doctor/physician

P302 + P352 IF ON SKIN Wash with plenty of soap and water.

P304 + P340 IF INHALED Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 + P310 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth

P332 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P361 + P364 Take off immediately all contaminated clothing and wash before reuse

P370 + P378 In case of fire: Use carbon dioxide, dry chemicals, foam or water spray (fog) to extinguish.

**Disposal:**

P501 Dispose of contents/container to an approved waste disposal plant.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P411+235 Store at temperatures not exceeding 190°C/374 °F. Keep cool.

**Symptoms of Overexposure:**

Inhalation: respiratory tract irritation, coughing, reduced fetal weight, increase in fetal deaths.

Ingestion: nausea and vomiting, reduced fetal weight, increase in fetal deaths.

Skin: irritation, redness, reduced fetal weight, increase in fetal deaths.

Eyes: pain or irritation, watering, redness, reduced fetal weight, increase in fetal deaths.

Pre-existing disorders involving any target organs mentioned in this SDS as being at risk may be aggravated by over-exposure to this product.

**Carcinogenicity:**

Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

**Developmental effects:**

Contains material which can cause developmental abnormalities.

**Target Organs:**

Contains material which causes damage to the following organs: blood, kidneys, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Contains material which may cause damage to the following organs: lungs, cardiovascular system.

**SECTION III: COMPOSITION/ INFORMATION ON INGREDIENTS**

Hazardous Ingredients	Concentration %	C.A.S. #
2-ethylhexyl nitrate	30 – 60%	27247-96-7
Solvent naphtha (petroleum), heavy arom.	30 – 60%	64742-94-5
Xylene	0.99 – 4.99%	1330-20-7
Naphthalene	0.99 – 4.99%	91-20-3
Diethylene glycol monomethyl ether	0.99 – 4.99%	111-77-3
1,2,4-trimethylbenzene	0.99 – 4.99%	95-63-6
Ethylbenzene	0.09 – 0.99%	100-41-4

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## **SECTION IV: FIRST AID MEASURES**

- Ingestion:** Wash mouth out with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## **SECTION V: FIRE-FIGHTING MEASURES**

- Flammability of the product:** Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Suitable extinguishing media:** Carbon dioxide, foam, dry chemicals or water spray (fog).

- Unsuitable extinguishing media:** Avoid spreading with water flooding. Do not use water jet.
- Hazardous combustion products:** Oxides of carbon, nitrogen and dense smoke.
- Special extinguishing methods:** Keep containers cool with water spray.
- Special protective equipment and precautions for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.
- Fire and explosion hazards:** Decomposes violently when heated above 100°C (212°F). Cool containing vessel with flooding quantities of water until well after fire is out. Fight fire from protected location or maximum possible distance. Do not cut, weld, or pressurize empty container. Container may explode in heat of fire.
- Special exposure hazards:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with material must be contained and prevented from being discharged to any waterway, sewer or drain.

## **SECTION VI: ACCIDENTAL RELEASE MEASURES**

- Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

**Methods for cleaning up:**

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

**Large spills:**

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect diatomaceous earth and place in container for disposal according to local regulations (see Section XIII). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section I for emergency contact information and Section XIII for waste disposal.

## **SECTION VII: HANDLING AND STORAGE**

**Handling:**

Put on appropriate personal protective equipment (see Section VIII). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers

retain product residue and can be hazardous. Do not reuse container.

**Storage:**

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section X) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Storage temperature: Ambient.

**SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Ingredient</b>	<b>ACGIH TLV (US, 2/2010)</b>	<b>OSHA PEL 1989 (US, 3/1989)</b>	<b>NIOSH REL (US, 6/2009)</b>	<b>OSHA PEL (US, 6/2010)</b>
Naphthalene	TWA: 10 ppm, 0 times/shift, 8 hrs. TWA: 52 mg/m <sup>3</sup> , 0 times/shift, 8 hrs. STEL: 15 ppm, 0 times/shift, 8 hrs. STEL: 79 mg/m <sup>3</sup> , 0 times/shift, 15 mins.	TWA: 10 ppm, 0 times/shift, 8 hrs. TWA: 50 mg/m <sup>3</sup> , 0 times/shift, 8 hrs. STEL: 15 ppm, 0 times/shift, 15 mins. STEL: 75 mg/m <sup>3</sup> , 0 times/shift, 15 mins.	TWA: 10 ppm, 0 times/shift, 10 hrs. TWA: 50 mg/m <sup>3</sup> , 0 times/shift, 10 hrs. STEL: 15 ppm, 0 times/shift, 15 mins. STEL: 75 mg/m <sup>3</sup> , 0 times/shift, 15 mins.	TWA: 10 ppm, 0 times/shift, 8 hrs. TWA: 50 mg/m <sup>3</sup> , 0 times/shift, 8 hrs.
Xylene	TWA: 100 ppm, 0 times/shift, 8 hrs. TWA: 434 mg/m <sup>3</sup> , 0 times/shift, 8 hrs. STEL: 150 ppm, 0 times/shift, 15 mins. STEL: 651 mg/m <sup>3</sup> , 0 times/shift, 15 mins.	TWA: 100ppm, 0 times/shift, 8 hrs. TWA 435 mg/m <sup>3</sup> , 0 times/shift, 8 hrs. STEL: 150 ppm, 0 times/shift, 15 mins. STEL: 655 mg/m <sup>3</sup> , 0 times/shift, 15 mins.		TWA: 100 ppm, 0 times/shift, 8 hrs. TWA: 435 mg/m <sup>3</sup> , 0 times/shift, 8 hrs.
Ethylbenzene	TWA: 100 ppm, 0 times/ shift, 8 hrs. STEL: 125 ppm, 0 times/shift, 15 mins.	TWA: 100 ppm, 0 times/shift, 8 hrs. TWA: 435 mg/m <sup>3</sup> , 0 times/shift, 8 hrs. STEL: 125 ppm, 0 times/shift, 15 mins. STEL: 545 mg/m <sup>3</sup> , 0 times/shift, 15 mins.	TWA: 100 ppm, 0 times/shift, 8 hrs. TWA: 435 mg/m <sup>3</sup> , 0 times/shift, 8 hrs. STEL: 125 ppm, 0 times/shift, 15 mins. STEL: 545 mg/m <sup>3</sup> , 0 times/shift, 15 mins.	TWA: 100 ppm, 0 times/shift, 8 hrs. TWA: 435 mg/m <sup>3</sup> , 0 times/shift, 8 hrs.
2-ethylhexyl nitrate	Innospec (United States, 1/2010). Absorbed through skin. TWA: 1ppm 8 hrs.	Innospec (United States, 6/2010). Absorbed through skin. STEL: 1 ppm, 15 mins.		



1,2,4-trimethylbenzene	TWA: 25 ppm, 0 times/shift, 8 hrs. TWA: 123 mg/m <sup>3</sup> , 0 times/shift, 8 hrs.	TWA: 25 ppm, 0 times/shift, 8 hrs. TWA: 125 mg/m <sup>3</sup> , 0 times/shift, 8 hrs.	TWA: 25 ppm, 0 times/shift, 10 hrs. TWA: 125 mg/m <sup>3</sup> , 0 times/shift, 10 hrs.	
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**Recommended monitoring procedures:**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measure and/or the necessity to use respiratory protective equipment.

**Engineering controls:**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection:**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

**Eye protection:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

**Skin protection:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Hand protection:**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Environmental exposure controls:**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will necessary to reduce emissions to acceptable levels.

**SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Clear, amber
<b>Odour:</b>	Aromatic
<b>Odour Threshold:</b>	Lowest known value: 0.001 to 0.03 ppm (2-ethylhexyl nitrate)
<b>pH:</b>	Not available
<b>Pour Point:</b>	Not available
<b>Boiling Point:</b>	Lowest known value: 138.85°C (281.9°F) (xylene) Weighted average: 192.11°C (377.8°F)
<b>Flash Point:</b>	Closed cup: >60°C (>140°F) [Pensky-Martens]
<b>Evaporation Rate:</b>	Highest known value: (<1 (2-ethylhexyl nitrate). Weighted average: 0.46 compared with butyl acetate
<b>Upper Flammability Limit:</b>	18.1% (diethylene glycol monomethyl ether)
<b>Lower Flammability Limit:</b>	1.6% (diethylene glycol monomethyl ether)
<b>Specific Gravity:</b>	0.938 [ASTM D 4052]
<b>Density:</b>	7.82 lbs/gal
<b>Vapour Pressure:</b>	Highest known value: 0.7 to 0.9 kPa (5 to 6.6 mm Hg) at 20°C (68°F) (xylene). Weighted average: 0.09 kPa (0.68 mm Hg) at 20°C (68°F)
<b>Vapour Density:</b>	Highest known value: 4.6 to 5.5 (Air = 1) (solvent naphtha (petroleum), heavy arom.). Weighted average: 3.19 (Air = 1)
<b>Solubility in Water:</b>	Insoluble in cold water, hot water.
<b>Autoignition Temperature:</b>	130°C (266°F) to 215°C (419°F) (2-ethylhexyl nitrate)
<b>Partitioning Coefficient:</b>	Not available
<b>Dispersibility Properites:</b>	Not dispersible in cold water

**SECTION X: STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable. Decomposes violently when heated above 100°C (212°F)
<b>Conditions to avoid:</b>	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

<b>Conditions of reactivity:</b>	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
<b>Polymerization:</b>	<b>Will not occur.</b>
<b>Decomposition Products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Possibility of hazardous reactions:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.

## **SECTION XI: TOXICOLOGICAL INFORMATION**

### **Acute Toxicity:**

Naphthalene (component):	Dermal LD <sub>50</sub> (Rabbit) = > 2000 mg/kg Dermal LD <sub>50</sub> (Rat) = > 2500 mg/kg Oral LD <sub>50</sub> (Rat) = 490 mg/kg Inhalation Vapour LC <sub>50</sub> (Rat) = > 340 mg/m <sup>3</sup> (1 hr exposure)
Solvent naphtha (petroleum), heavy arom. (component):	Dermal LD <sub>50</sub> (Rabbit) = > 2 mL/kg Oral LD <sub>Lo</sub> (Rat) = 5 mL/kg Inhalation Vapour LC <sub>50</sub> (Rat) = > 590 mg/m <sup>3</sup> (4 hr exposure)
Ethylbenzene:	Dermal LD <sub>50</sub> (Rabbit) = > 5000 mg/kg Inhalation Vapour LC <sub>50</sub> (Mouse) = 35500 mg/m <sup>3</sup> (2 hr exposure) Inhalation Vapour LC <sub>50</sub> (Rabbit) = 4000 ppm (4 hr exposure)
Xylene:	Dermal LD <sub>50</sub> (Rabbit) = 4320 mg/kg Oral LD <sub>50</sub> (Rat) = 4300 mg/kg
2-ethylhexyl nitrate:	Dermal LD <sub>50</sub> (Rabbit) = > 4820 mg/kg Oral LD <sub>50</sub> (Rat) = > 9640 mg/kg Inhalation Vapour LCLo (Rat) = > 4.6 mg/L (1 hr exposure)
<b>Chronic Toxicity:</b>	Not available

### **Irritation/Corrosion:**

Diethylene glycol monomethyl ether:	Eyes – mild irritant (Rabbit) Eyes – moderate irritant (Rabbit)
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Skin – mild irritant (Rabbit)

Naphthalene (component): Skin – mild irritant (Rabbit)  
Skin – severe irritant (Rabbit)

Ethylbenzene (component): Eyes – severe irritant (Rabbit)  
Skin – mild irritant (Rabbit)

Solvent naphtha (petroleum), heavy arom.(component): Skin – mild irritant (Rabbit)  
Eyes – mild irritant (Mammal - species unspecified)

Xylene (component): Eyes – severe irritant (Rabbit)  
Skin – mild irritant (Rat)  
Skin – moderate irritant (Rabbit)

2-ethylhexyl nitrate (component): Eyes – mild irritant (Mammal - species unspecified)  
Eyes – mild irritant (Rabbit)

**Sensitization:**

2-ethylhexyl nitrate (component): Skin – not sensitizing (Guinea Pig)

**Reproductive Toxicity:**

2-ethylhexyl nitrate (component): Fertility – **negative**; Oral: 100 mg/kg, 5 days (Rat)  
Maternal toxicity – **negative**; Oral: 20 mg/kg, 5 days (Rat)

**Teratogenicity:**

No known significant effects or critical hazards.

**Embryo toxicity:**

Not available.

**Mutagenicity:**

Not available.

2-ethylhexyl nitrate (component): OECD 473 Test: In-vitro (Mammalian-Human) - **Negative**

**Carcinogenicity:**

Component	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Xylene	A4	3	-	-	-	-
Naphthalene	A4	2B	-	-	Possible	-
Ethylbenzene	A3	2B	-	-	-	-

## SECTION XII: ECOLOGICAL INFORMATION

**Ecotoxicity:** Water polluting material. May be harmful to the environment if released in large quantities.

**Persistence/Degradability:** Not available.

**Aquatic Ecotoxicity:**

Component	Result	Species	Exposure
Diethylene glycol monomethyl ether	Acute LC <sub>50</sub> 7500 mg/L Fresh water	Fish – Lepomis macrochirus – 33 to 75mm	96 hrs.
Naphthalene	Acute EC <sub>50</sub> 1.96 mg/L Fresh water	Daphnia magna - < 24 hrs.	48 hrs.
	Acute LC <sub>50</sub> 2350 ug/L Marine water	Crustaceans – Palaemonetes pugio	48 hrs.
	Acute LC <sub>50</sub> 1.6 mg/L	Fish	96 hrs.
Solvent naphtha (petroleum) heavy arom.	Acute EC <sub>50</sub> 3 to 10 mg/L	Daphnia	48 hrs.
	Acute LC <sub>50</sub> 2 to 5 mg/L	Fish	96 hrs.
	Acute EC <sub>50</sub> 1 to 3 mg/L	Algae	72 hrs.
Ethylbenzene	Acute EC <sub>50</sub> 2.93 mg/L	Daphnia	48 hrs.
	Chronic NOEC 6800 ug/L Fresh water	Daphnia magna - < = 24 hrs	48 hrs.
	Acute LC <sub>50</sub> 4.2 mg/L	Fish	96 hrs.
	Acute EC <sub>50</sub> 4600 ug/L Fresh water	Algae – Pseudokirchneriella subcapitata	72 hrs.
	Acute EC <sub>50</sub> 3600 ug/L Fresh water	Algae – Pseudokirchneriella subcapitata	96 hrs.
	Acute EC <sub>50</sub> 7.2 mg/L	Algae	48 hrs.
1,2,4-trimethylbenzene	Acute LC <sub>50</sub> 7.72 mg/L	Fish	96 hrs.
Xylene	Acute LC <sub>50</sub> 3.3 mg/L	Fish	96 hrs.
2-ethylhexyl nitrate	Acute EC <sub>50</sub> > 10mg/L Estimated	Daphnia	48 hrs.
	Acute LC <sub>50</sub> 2 mg/L	Fish – Danio rerio	96 hrs.
	Acute EC <sub>50</sub> 1 to 10 mg/L Estimated. Nominal Concentration	Algae	72 hrs.

### **SECTION XIII: DISPOSAL CONSIDERATION**

**Waste Disposal:**





The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.





**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

**The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.**

**Refer to Section VII: Handling and Storage and Section VIII: Exposure controls/Personal Protection for additional handling information and protection of employees.**

**SECTION XIV: TRANSPORT INFORMATION**

Regulatory Information	UN Number	Proper Shipping Name	Classes	Packing Group	Label	Additional Information
<b>TDG</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (2-ethylhexyl nitrate). Marine pollutant (2-ethylhexyl nitrate, solvent naphtha (petroleum), heavy arom.)	9	III	 	<b>Explosive Limit and Limited Quantity Index: 5</b> <b>Special Provisions: 16</b>
<b>DOT</b>	NA1993	Combustible liquid, n.o.s. (2-ethylhexyl nitrate, Solvent naphtha (petroleum), heavy arom.). Marine pollutant (2-ethylhexyl nitrate, Solvent naphtha (petroleum), heavy arom.)	Combustible liquid	III	 	<b>Limited Quantity: Yes</b> <b>Packaging Instruction Passenger Aircraft:</b> Quantity limitation: 60L <b>Cargo Aircraft:</b> Quantity limitation: 220L <b>Special Provisions: IB3, T1, T4, TP1</b> <b>Remarks:</b> This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land. [49 CFR Subpart A171.4 (c) <i>Exceptions.</i> (1) Except when

						all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants <b>do not apply</b> to non-bulk packaging's transported by motor vehicle, rail car or aircraft.
<b>cf</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl nitrate, Solvent naphtha (petroleum), heavy arom.). Marine pollutant (2-ethylhexyl nitrate, Solvent naphtha (petroleum), heavy arom.)	9	III	 	<b>Emergency Schedules (EmS):</b> F-A, S-F
<b>IATA-DGR</b>	US3082	Environmentally hazardous substance, liquid, n.o.s. (2-ethylhexyl nitrate, Solvent naphtha (petroleum), heavy arom.)	9	III	 	



**Flash Point:** Closed Cup: >60°C (>140°F) [Pensky-Martens]

## **SECTION XV: REGULATORY INFORMATION**

**OSHA Hazard Communication Standards 29CFR 1910.1200:** Combustible liquid, toxic material, irritating material, carcinogen, target organ effects.

**CERCLA:** Contains chemicals listed on CERCLA (40CFR 302.4). If this product is accidentally spilled, it is subject to special reporting under requirements of the Comprehensive Environmental Response and Liability Act. CERCLA: Hazardous substances: naphthalene: 100 lbs. (45.4 kg); xylene: 100 lbs. (45.4 kg); ethylbenzene: 1000 lbs. (454 kg); toluene: 1000 lbs. (454 kg); cumene: 5000 lbs. (2270 kg); maleic anhydride: 5000 lbs. (2270 kg); 2-(2-methoxyethoxy)ethanol;

**U.S. Federal Regulations:**

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** xylene; naphthalene; 1,2,4-trimethylbenzene; 2-(2-methoxyethoxy)ethanol

**SARA Section 311/312 MSDS distribution – chemical inventory – hazard identification:** 2-ethylhexyl nitrate: Fire hazard, reactive, immediate (acute) health hazard; xylene: Fire hazard, immediate (acute) health hazard; naphthalene: Fire hazard, immediate (acute) health hazard; 1,2,4-trimethylbenzene: Fire hazard, delayed (chronic) health hazard; 2-(2-methoxyethoxy)ethanol: Fire hazard, immediate (acute) health hazard, delayed (chronic) health hazard

**TSCA 4(a) final test rules:** naphthalene

**TSCA 8(a) PAIR:** naphthalene

**TSCA 8(a) IUR Exempt/Partial exemption:** Not determined

**United States Inventory (TSCA 8b):** All components are listed or exempted.

**TSCA 12(b) annual export notification:** naphthalene

**Clean Water Act (CWA) 307:** naphthalene; ethylbenzene, toluene

**Clean Water Act (CWA) 311:** naphthalene; ethylbenzene; toluene; xylene, maleic anhydride

**SARA Title III Section 313:**

Form R – Reporting requirements and Supplier notification

CAS 1330-20-7 (xylene): 0.99-4.99%

CAS 91-20-3 (naphthalene): 0.99-4.99%

CAS 111-77-3 (diethylene glycol monomethyl ether): 0.99-4.99%

CAS 95-63-6 (1,2,4-trimethylbenzene): 0.99-4.99%

CAS 100-41-4 (ethylbenzene): 0.09 – 0.99%

SARA 313 notification must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

**Clean Air Act Section 112(b)  
Hazardous Air Pollutants  
(HAPs):**

Listed.

**Clean Air Act Section 602 Class  
I Substances:**

Not listed.

**Clean Air Act Section 602 Class  
II Substances:**

Not listed.

**DEA List I Chemicals  
(Precursor Chemicals):**

Not listed.

**DEA List II Chemicals  
(Essential Chemicals):**

Not listed.

**State Regulations:**

**Massachusetts:** The following components are listed: diethylene glycol methyl ether; naphthalene; pseudocumene; xylene

**New York:** The following components are listed: naphthalene; ethylbenzene; xylene (mixed)

**New Jersey:** The following components are listed: glycol ethers; naphthalene; moth flakes; pseudocumene; 1,2,4-trimethyl benzene; ethyl benzene; benzene, ethyl-; xylenes; benzene, dimethyl-

**Pennsylvania:** The following components are listed: 2-(2-methoxyethoxy)-; naphthalene; pseudocumene; benzene, ethyl-; benzene, dimethyl-

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

**California Prop. 65:**

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

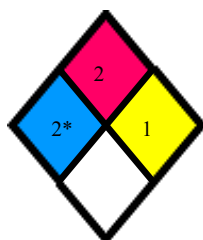
<b>Ingredient Name</b>	<b>Cancer</b>	<b>Reproductive</b>	<b>No significant risk level</b>	<b>Maximum acceptable dosage level</b>
Naphthalene	Yes	No	Yes	No
Ethylbenzene	Yes	No	41 µg/day (ingestion) 54 µg/day (inhalation)	No
Ethylene glycol monomethyl ether	No	Yes	No	63 µg/day (ingestion)
Toluene	No	Yes	No	7000 µg/day (ingestion) 13000 µg/day (inhalation)
Cumene	Yes	No	No	No

- Canada Inventory:** All components are listed or exempted.
- United States Inventory (TSCA 8b):** All components are listed or exempted.
- Australia Inventory (AICS):** Not determined.
- China Inventory (IECSC):** At least one component is not listed.
- EU Inventory:** At least one component is not listed in EINECS but all such components are listed in ELINCS.
- Japan Inventory (ENCS):** Not determined.
- Korea Inventory (KECI):** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines Inventory (PICCS):** Not determined.

**SECTION XVI: OTHER INFORMATION**

**Label Requirements:** COMBUSTIBLE LIQUID AND VAPOR. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. POSSIBLE CANCER HAZARD – CONTAINS MATERIAL WHICH MAY CAUSE CANCER, BASED ON ANIMAL DATA.

**HMIS Information**



**Degree of Hazard**

- 4= Severe
- 3= Serious
- 2= Moderate
- 1= Slight
- 0= Minimal
- \*=Chronic

**Revision Information**

<b>Prepared by:</b>	Awsum Outcomes Inc.
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<b>Revision:</b>	4.0

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