

### 1. Product and Company Identification

**Product Code:** C47  
**Product Name:** Octane Boost  
**Company Name:** CYCLO INDUSTRIES, INC.  
902 SOUTH US HIGHWAY 1  
JUPITER, FL 33477  
**Phone Number:** (800)843-7813

**Web site address:** www.cyclo.com  
**Email address:** ehs@cyclo.com

**Emergency Contact:** First Aid Emergency (800)752-7869  
CHEMTREC (703) 527-3887 (800)424-9300

**Information:** First Aid Emergency (Outside U.S.) (312)906-6194

**Intended Use:** Fuel Treatment

### 2. Hazards Identification

Flammable Liquids, Category 4

Acute Toxicity: Inhalation, Category 4

Specific Target Organ Toxicity (single exposure), Category 3

Carcinogenicity, Category 2

Specific Target Organ Toxicity (repeated exposure), Category 2

Aspiration Toxicity, Category 1

Skin Corrosion/Irritation, Category 2



**GHS Signal Word:** Danger

**GHS Hazard Phrases:**

H227: Combustible liquid.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H332: Harmful if inhaled.  
H336: May cause drowsiness or dizziness.  
H351: Suspected of causing cancer.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H411: Toxic to aquatic life with long lasting effects.

**GHS Precaution Phrases:**

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.  
P233: Keep container tightly closed.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P362+364: Take off contaminated clothing and wash it before reuse.

**GHS Response Phrases:**

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.



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P363: Wash contaminated clothing before reuse.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

### GHS Storage and Disposal Phrases:

P403+235: Store in cool/well-ventilated place.  
P405: Store locked up.  
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

## 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
68476-34-6	Diesel #2	80.0 -90.0 %
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	7.5 -8.5 %
NA	Polymer Amine Blend	0.5 -1.5 %
91-20-3	Naphthalene	0.5 -1.0 %
1330-20-7	Xylene (mixed isomers)	0.4 -0.8 %
12108-13-3	Manganese, Tricarbonyl methylcyclopentadienyl	0.3 -0.8 %
95-63-6	1,2,4-Trimethylbenzene	0.1 -0.2 %
100-41-4	Ethylbenzene	< 0.1 %
108-67-8	Mesitylene	< 0.05 %
12079-65-1	Manganese, Tricarbonyl(.eta.5-2,4-cyclopentadien-1-yl)-	< 0.01 %

## 4. First Aid Measures

### Emergency and First Aid Procedures:

If swallowed, do not induce vomiting. Rinse mouth. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of skin contact, flush skin with water after contact. Wash contaminated clothing before reuse. Call physician immediately if adverse reaction occurs.

### Signs and Symptoms Of Exposure:

Swallowing: Vomiting may result. Pulmonary aspiration hazard if vomiting occurs.

Breathing: Irritation of the respiratory tract; headache, nausea, dizziness, weakness & fatigue. Extreme exposure can result in unconsciousness & even respiratory arrest.

Eye Contact: Eye irritant.

Skin Contact: Prolonged & repeated skin contact may cause defatting & dermatitis.



## 5. Fire Fighting Measures

<b>Flash Pt:</b>	60.60 C (141.1 F) Method Used: Pensky-Marten Closed Cup
<b>Explosive Limits:</b>	LEL: N.A. UEL: N.A.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	CO2, dry chemical, foam or other NFPA approved method for treating a Class B fire.
<b>Fire Fighting Instructions:</b>	Wear self-contained breathing apparatus and full protective equipment. Water spray may be ineffective. If water is used, fog nozzles are preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible autoignition.
<b>Flammable Properties and Hazards:</b>	Keep containers tightly closed. Isolate from heat and flame. Due to pressure build up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch ton or near container (even empty) as product or its residue may ignite. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent.
<b>Hazardous Combustion Products:</b>	No data available.

## 6. Accidental Release Measures

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Do not smoke. Prevent breathing of vapors. Ventilate area. Before attempting to clean up, refer to hazard caution information in other sections of this MSDS. Dike and contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until product can be properly disposed of. Dispose of in accordance with local, state and federal regulations. Incinerate only in an approved facility. Do not incinerate closed containers.
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## 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Keep container tightly closed. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash it before reuse. Keep out of the reach of children.
<b>Precautions To Be Taken in Storing:</b>	Store in cool/well-ventilated place. Store locked up.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68476-34-6	Diesel #2	No data.	TLV: 100 mg/m3	No data.
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	No data.	No data.	No data.
NA	Polymer Amine Blend	No data.	No data.	No data.
91-20-3	Naphthalene	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	No data.
1330-20-7	Xylene (mixed isomers)	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.
12108-13-3	Manganese, Tricarbonyl methylcyclopentadienyl	CEIL: 5 mg/m3	TLV: 0.2 mg/m3	No data.
95-63-6	1,2,4-Trimethylbenzene	No data.	No data.	No data.



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100-41-4	Ethylbenzene	PEL: 100 ppm	TLV: 100 ppm STEL: 125 ppm	No data.
108-67-8	Mesitylene	No data.	No data.	No data.
12079-65-1	Manganese, Tricarbonyl(.eta.5-2,4-cyclopentadien-1-yl)-	CEIL: 5 mg/m3	TLV: 0.1 mg/m3	No data.

**Respiratory Equipment (Specify Type):**

When used in restricted ventilation areas, wear NIOSH/MDHS approved chemical/mechanical filters designed to remove a combination of particulates & vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or hoods. Follow respirator manufacturer's directions for respirator use. If respirators are used, a program should be established to assure compliance with OSHS Standard 29 CFR 1910.134.

**Eye Protection:**

Chemical goggles.

**Protective Gloves:**

Neoprene or equivalent gloves.

**Other Protective Clothing:**

Solvent impermeable clothing should be worn if contact is likely.

**Engineering Controls (Ventilation etc.):**

Use product only with adequate ventilation. Use either local exhaust or mechanical means to meet TLV requirements. Ventilation must be sufficient to limit employee exposure at or below applicable health and safety standards. Heavy solvent vapors should be removed from lower levels of work areas.

**Work/Hygienic/Maintenance Practices:**

Maintain ready access to eye bath & safety shower.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
<b>Appearance and Odor:</b>	Amber liquid with aromatic odor.
<b>pH:</b>	NP
<b>Melting Point:</b>	No data.
<b>Boiling Point:</b>	>= 250.00 F (121.1 C)
<b>Flash Pt:</b>	60.60 C (141.1 F)    Method Used: Pensky-Marten Closed Cup
<b>Evaporation Rate:</b>	No data.
<b>Flammability (solid, gas):</b>	No data available.
<b>Explosive Limits:</b>	LEL: N.A.    UEL: N.A.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NA
<b>Vapor Density (vs. Air = 1):</b>	NA
<b>Specific Gravity (Water = 1):</b>	.901
<b>Solubility in Water:</b>	Negligible
<b>Octanol/Water Partition Coefficient:</b>	No data.
<b>Autoignition Pt:</b>	No data.
<b>Decomposition Temperature:</b>	No data.
<b>Viscosity:</b>	No data.



## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Heat, sparks, flames.

**Incompatibility - Materials To Avoid:** Strong oxidizing agents.

**Hazardous Decomposition or Byproducts:** Thermal decomposition may yield carbon monoxide and dioxide.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. Toxicological Information

**Toxicological Information:** Animal Data

**Naphthalene:**

Inhalation 15 minute LC50: >0.34 mg/L in rats  
 Skin Absorption LD50: 10,000 mg/kg in rabbits  
 Oral LD50: 1,780 mg/kg in rats

**Heavy Aromatic Naphtha:**

Inhalation 6 hour LC50: >11.67 mg/L in rats  
 Skin Absorption LD50: > 3,160 mg/kg in rabbits  
 Oral LD50: >5,000 mg/kg in rats

**Proprietary Component:**

Skin absorption LD50: 660 mg/kg in rabbits  
 Oral LD50: 3,990 mg/kg in rats

Heavy Aromatic Naphtha is a severe skin irritant, is an eye irritant, but is not a skin sensitizer in animals. Repeated inhalation exposures caused reduced growth rate, respiratory tract irritation, congestion in liver and spleen, changes in blood tests and equilibrium disturbances. No animal test reports are available to define carcinogenic, mutagenic, developmental, or reproductive hazards.

The Proprietary Component is a severe skin and eye irritant and is a skin sensitizer in animals. Effects of long term dermal exposures include hyperkeratosis and necrosis of the epidermis but no evidence of increased incidences of tumors. Repeated dietary administration of high doses produced depressed liver weights and body weight loss. Tests in animals demonstrate no carcinogenic activity. No animal test reports are available to define developmental or reproductive hazards.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
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68476-34-6	Diesel #2	n.a.	2B	A3	n.a.
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	n.a.	n.a.	n.a.	n.a.
NA	Polymer Amine Blend	n.a.	n.a.	n.a.	n.a.
91-20-3	Naphthalene	Possible	2B	A4	n.a.
1330-20-7	Xylene (mixed isomers)	n.a.	3	A4	n.a.
12108-13-3	Manganese, Tricarbonyl methylcyclopentadienyl	n.a.	n.a.	n.a.	n.a.
95-63-6	1,2,4-Trimethylbenzene	n.a.	n.a.	n.a.	n.a.
100-41-4	Ethylbenzene	n.a.	2B	A3	n.a.
108-67-8	Mesitylene	n.a.	n.a.	n.a.	n.a.
12079-65-1	Manganese, Tricarbonyl(eta.5-2,4-cyclopentadien-1-yl)-	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

**General Ecological Information:** 96 hour LC50, fathead minnows: 4.2-20.8 mg/L

## 13. Disposal Considerations

**Waste Disposal Method:** Dispose of contents/container in accordance with local/regional/national/international regulation.

## 14. Transport Information

### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not-Regulated

**DOT Hazard Class:**

**UN/NA Number:**

### LAND TRANSPORT (European ADR/RID):

**ADR/RID Shipping Name:** Not-Regulated

**UN Number:**

**Hazard Class:**

### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Not-Regulated

**UN Number:**

**Hazard Class:**

**Packing Group:**

**IMDG MFAG Number:**

**IMDG EMS Page:**

**Marine Pollutant:**

No

### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Not-Regulated

## 15. Regulatory Information

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
68476-34-6	Diesel #2	No	No	No
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	No	No	No
NA	Polymer Amine Blend	No	No	No
91-20-3	Naphthalene	No	Yes 100 LB	Yes
1330-20-7	Xylene (mixed isomers)	No	Yes 100 LB	Yes
12108-13-3	Manganese, Tricarbonyl methylcyclopentadienyl	Yes 100 LB	No	Yes-Cat. N450
95-63-6	1,2,4-Trimethylbenzene	No	No	Yes



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100-41-4	Ethylbenzene	No	Yes 1000 LB	Yes
108-67-8	Mesitylene	No	No	No
12079-65-1	Manganese, Tricarbonyl(.eta.5-2,4-cyclopentadien-1-yl)-	No	No	Yes-Cat. N450

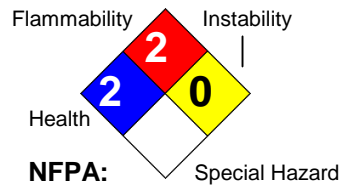
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
68476-34-6	Diesel #2	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
NA	Polymer Amine Blend	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
91-20-3	Naphthalene	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 8A PAIR; CA PROP.65: Yes: Canc.; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 1322; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes		
1330-20-7	Xylene (mixed isomers)	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: CMR, Part 5; NC TAP: Yes; NJ EHS: Yes - 2014; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes		
12108-13-3	Manganese, Tricarbonyl methylcyclopentadienyl	CAA HAP,ODC: Yes - Cat.; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Yes - Cat., Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Yes - Cat.; NC TAP: Yes - Cat.; NJ EHS: Yes - 1244; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes - Cat.; WI Air: Yes - Cat.		
95-63-6	1,2,4-Trimethylbenzene	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 2716; NY Part 597: No; PA HSL: Yes - E; SC TAP: No; WI Air: No		
100-41-4	Ethylbenzene	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: Yes: Canc.; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 0851; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes		
108-67-8	Mesitylene	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
12079-65-1	Manganese, Tricarbonyl(.eta.5-2,4-cyclopentadien-1-yl)-	CAA HAP,ODC: Yes - Cat.; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Yes - Cat., Title 8; MA Oil/HazMat: No; MI CMR, Part 5: Yes - Cat.; NC TAP: Yes; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: Yes - 1; SC TAP: Yes - Cat.; WI Air: Yes - Cat.		

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
68476-34-6	Diesel #2	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
NA	Polymer Amine Blend	Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No
91-20-3	Naphthalene	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
1330-20-7	Xylene (mixed isomers)	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
12108-13-3	Manganese, Tricarbonyl methylcyclopentadienyl	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
95-63-6	1,2,4-Trimethylbenzene	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
100-41-4	Ethylbenzene	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: 116-01 (4)
108-67-8	Mesitylene	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
12079-65-1	Manganese, Tricarbonyl(.eta.5-2,4-cyclopentadien-1-yl)-	Canadian DSL: No; Canadian NDSL: Yes; Taiwan TCSCA: Yes

### 16. Other Information

**Revision Date:** 09/06/2017

**Hazard Rating System:**



**Additional Information About** No data available.

**This Product:**

**Company Policy or**

**Disclaimer:**

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