

Max 44 Diesel Fuel System Cleaner with EGR & DPF

Revision: 09/27/2017

Supersedes Revision: 04/20/2017

1. Product and Company Identification

Product Code: C44D & C44DBINT
Product Name: Max 44 Diesel Fuel System Cleaner with EGR & DPF
Company Name: CYCLO INDUSTRIES, INC. **Phone Number:**
902 SOUTH US HIGHWAY 1 (800)843-7813
JUPITER, FL 33477

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

Information:
Intended Use: Diesel fuel treatment

2. Hazards Identification**Flammable Liquids, Category 3****Acute Toxicity: Inhalation, Category 4****Serious Eye Damage/Eye Irritation, Category 2A****Carcinogenicity, Category 2****Aspiration Toxicity, Category 1****Skin Corrosion/Irritation, Category 2****Specific Target Organ Toxicity (single exposure), Category 3****GHS Signal Word:** **Danger**

GHS Hazard Phrases: H226: Flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
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.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position

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comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical attention/advice.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P321: Specific treatment {see ... on this label}.

P331: Do NOT induce vomiting.

P332+313: If skin irritation occurs, get medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

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
68476-30-2	Fuel oil, no. 2	83.6 %
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	3.0 -6.0 %
90622-58-5	Aromatic hydrocarbon	2.1 -4.3 %
91-20-3	Naphthalene	0.1 -0.6 %
210555-94-5	Phenol, p-dodecyl, branched, para	0.1 -0.5 %
95-63-6	1,2,4-Trimethylbenzene	0.1 -0.5 %
107-15-3	Ethylenediamine	0.01 -0.1 %

4. First Aid Measures**Emergency and First Aid Procedures:**

If swallowed, do not induce vomiting. If inhaled, remove to fresh air. Give artificial respiration if needed. 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, remove contaminated clothing. Wash affected areas with soap and water. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures**Flash Pt:** > 131.00 F (55.0 C) Method Used: Closed Cup**Explosive Limits:** LEL: N.D. UEL: N.D.**Autoignition Pt:** No data.**Suitable Extinguishing Media:** Carbon dioxide, foam, dry chemical or water spray.

Fire Fighting Instructions: Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Avoid spraying water directly into storage containers due to danger of boil over. This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode. Combustible fluids can form combustible mixtures at temperatures at or above the flashpoint. Toxic gases will form upon combustion. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Use self-contained breathing apparatus. Do not use solid stream of water, since stream will scatter and spread fire.

Flammable Properties and Hazards: No data available.**Hazardous Combustion** Carbon monoxide and dioxide, partially burnt hydrocarbon gas.

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Products:**6. Accidental Release Measures****Steps To Be Taken In Case Material Is Released Or Spilled:**

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills, implement cleanup procedure; for large spills implement cleanup procedures, keep public away and advise authorities. Prevent liquid from entering sewers, waterways or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use and explosion proof or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up. Remove from water surfaces by skimming or with suitable absorbents.

7. Handling and Storage**Precautions To Be Taken in Handling:**

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. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Keep out of reach of children.

Precautions To Be Taken in Storing:

Store locked up. Store in cool/well-ventilated place.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68476-30-2	Fuel oil, no. 2	No data.	TLV: 100 mg/m3	No data.
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	No data.	No data.	No data.
90622-58-5	Aromatic hydrocarbon	No data.	No data.	No data.
91-20-3	Naphthalene	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	No data.
210555-94-5	Phenol, p-dodecyl, branched, para	No data.	No data.	No data.
95-63-6	1,2,4-Trimethylbenzene	No data.	No data.	No data.
107-15-3	Ethylenediamine	PEL: 10 ppm	TLV: 10 ppm	No data.

Respiratory Equipment (Specify Type):

Assure adequate ventilation to keep oil mists under safe limits. When necessary, wear proper NIOSH approved respirators or SCBA.

Eye Protection:

Safety glasses should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is likely.

Protective Gloves:

Wear impervious protective gloves, such as Nitrile, Neoprene, or PVA.

Other Protective Clothing:

Avoid prolonged or repeated skin exposure. Chemicals in mixture can be absorbed through the skin, so prevent contact by wearing impervious protective clothing and long sleeves.

Engineering Controls (Ventilation etc.):

Required when spraying or using at elevated temperatures that may generate oil mists. Use explosion proof ventilation system.

Work/Hygienic/Maintenance Practices:

Have suitable eye wash water available. Wash hands with plenty of soap and water before eating, drinking, smoking or using toilet facilities. Take a shower after work if general skin contact occurs. Remove oil soaked clothing and launder before reuse. Launder or discard contaminated leather gloves and shoes.

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9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Red liquid with hydrocarbon, aromatic odor.
pH:	No data.
Melting Point:	No data.
Boiling Point:	No data.
Flash Pt:	> 131.00 F (55.0 C) Method Used: Closed Cup
Evaporation Rate:	No data.
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: N.D. UEL: N.D.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	.85 at 60.0 F (15.6 C)
Solubility in Water:	Negligible
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.

10. Stability and Reactivity

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Excessive heat, sources of ignition, halogens, strong acids, alkalis, oxidizers.
Incompatibility - Materials To Avoid:	Strong oxidizing agents.
Hazardous Decomposition or Byproducts:	Carbon monoxide, hydrocarbons, aldehydes and aromatics, oxides.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

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11. Toxicological Information**Toxicological Information:**

CAS# 68476-30-2:

Other Studies:, TDLo, Skin, Species: Rabbit, 100.0 ML/KG, 12 D.

Results:

Skin and Appendages: Skin: After systemic exposure: Dermatitis, irritative.

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Related to Chronic Data - death.

- "Toxicology of Petroleum Hydrocarbons, Proceedings of the Symposium, 1st, 1982,"
MacFarland, H.N., et al., eds., Washington, DC, American Petroleum Institute, 1983
Volume, Vol/p/yr: 1,1, 1983

Acute toxicity, LD50, Oral, Rat, 12.00 GM/KG.

Results:

Behavioral: Somnolence (general depressed activity).

- Advances in Modern Environmental Toxicology., Senate Press, Inc., P.O. Box 252,
Princeton Junction, NJ 08550, Vol/p/yr: 6,1, 1984

Acute toxicity, LD (Lethal dose), Skin, Species: Rabbit, > 5.000 GM/KG.

Results:

Behavioral: Tremor.

Behavioral: Convulsions or effect on seizure threshold.

- Advances in Modern Environmental Toxicology., Senate Press, Inc., P.O. Box 252,
Princeton Junction, NJ 08550, Vol/p/yr: 6,1, 1984

Tumorigenic Effects:, TDLo, Skin, Mouse, 243.0 GM/KG, 97 W.

Results:

Tumorigenic: Carcinogenic by RTECS criteria.

Skin and Appendages: Other: Tumors.

- Fundamental and Applied Toxicology., Academic Press, Inc., 1 E. First St., Duluth, MN
55802, Vol/p/yr: 9,297, 1987

Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H, Moderate.

Results:

Brain and Coverings: Changes in surface EEG.

- "Toxicology of Petroleum Hydrocarbons, Proceedings of the Symposium, 1st, 1982,"
MacFarland, H.N., et al., eds., Washington, DC, American Petroleum Institute, 1983
Volume, Vol/p/yr: 1,1, 1983

Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG, 30 S, Mild.

Results:

Behavioral: Somnolence (general depressed activity).

- "Toxicology of Petroleum Hydrocarbons, Proceedings of the Symposium, 1st, 1982,"
MacFarland, H.N., et al., eds., Washington, DC, American Petroleum Institute, 1983
Volume, Vol/p/yr: 1,1, 1983



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68476-30-2	Fuel oil, no. 2	n.a.	2B	A3	n.a.
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	n.a.	n.a.	n.a.	n.a.
90622-58-5	Aromatic hydrocarbon	n.a.	n.a.	n.a.	n.a.
91-20-3	Naphthalene	Possible	2B	A4	n.a.
210555-94-5	Phenol, p-dodecyl, branched, para	n.a.	n.a.	n.a.	n.a.
95-63-6	1,2,4-Trimethylbenzene	n.a.	n.a.	n.a.	n.a.
107-15-3	Ethylenediamine	n.a.	n.a.	A4	n.a.

12. Ecological Information

General Ecological Information: This product may be toxic to aquatic organisms such as algae and daphnia. This substance has also been shown to be toxic to specific fish species for rainbow trout, Atlantic silverside.

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: Flammable Liquid, n.o.s. (Fuel Oil No. 2, Solvent Naphtha), Ltd Qty
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN1993 **Packing Group:** III

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Flammable Liquid, n.o.s. (Fuel Oil No. 2, Solvent Naphtha), Ltd Qty
UN Number: 1993 **Packing Group:** III
Hazard Class: 3 - FLAMMABLE LIQUID **ADR Classification:** 3

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Flammable Liquid, n.o.s. (Fuel Oil No. 2, Solvent Naphtha), Ltd Qty
UN Number: 1993 **Packing Group:** III
Hazard Class: 3 - FLAMMABLE LIQUID **IMDG Classification:** 3
IMDG MFAG Number:
IMDG EMS Page: **Marine Pollutant:** No

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Flammable Liquid, n.o.s. (Fuel Oil No. 2, Solvent Naphtha), Ltd Qty
UN Number: 1993 **Packing Group:** III
Hazard Class: 3 - FLAMMABLE LIQUID **IATA Classification:** 3

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)
68476-30-2	Fuel oil, no. 2	No	No	No
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	No	No	No
90622-58-5	Aromatic hydrocarbon	No	No	No
91-20-3	Naphthalene	No	Yes 100 LB	Yes
210555-94-5	Phenol, p-dodecyl, branched, para	No	No	No
95-63-6	1,2,4-Trimethylbenzene	No	No	Yes
107-15-3	Ethylenediamine	Yes 10000 LB	Yes 5000 LB	No



SAFETY DATA SHEET

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CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
68476-30-2	Fuel oil, no. 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
90622-58-5	Aromatic hydrocarbon	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
210555-94-5	Phenol, p-dodecyl, branched, para	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
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
107-15-3	Ethylenediamine	CAA HAP,ODC: No; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 0875; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: Yes
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
68476-30-2	Fuel oil, no. 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
90622-58-5	Aromatic hydrocarbon	Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: Yes
91-20-3	Naphthalene	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
210555-94-5	Phenol, p-dodecyl, branched, para	Canadian DSL: No; Canadian NDSL: Yes; Taiwan TCSCA: Yes
95-63-6	1,2,4-Trimethylbenzene	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
107-15-3	Ethylenediamine	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes



SAFETY DATA SHEET

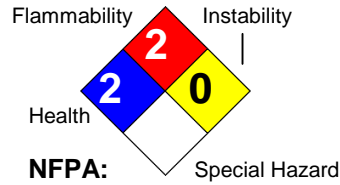
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16. Other Information

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Hazard Rating System:



Additional Information About This Product: No data available.

This Product:

Company Policy or

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