

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** C44DX & C44DF
Product Name: Max 44 Diesel Fuel System Cleaner
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant identified uses: Diesel fuel treatment
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- | | | |
|--------------------------|---------------------------------------------------------------------------|---------------------------------------|
| Company Name: | CYCLO INDUSTRIES, INC.
902 SOUTH US HIGHWAY 1
JUPITER, FL 33477 USA | Phone Number:
(800)843-7813 |
| Web site address: | www.cyclo.com | |
| Email address: | ehs@cyclo.com | |
| Information: | First Aid Emergency (Outside U.S.) | (312)906-6194 |
- 1.4 Emergency telephone number:**
- | | | |
|---------------------------|-------------------------|---------------|
| Emergency Contact: | First Aid Emergency | (800)752-7869 |
| | CHEMTREC (703) 527-3887 | (800)424-9300 |

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
- Flammable Liquids, Category 3
 - Acute Toxicity: Inhalation, Category 4
 - Acute Toxicity: Oral, Category 4
 - Acute Toxicity: Skin, Category 4
 - Serious Eye Damage/Eye Irritation, Category 2A
 - Carcinogenicity, Category 2
 - Aspiration Toxicity, Category 1
 - Skin Corrosion/Irritation, Category 3
 - Aquatic Toxicity (Acute), Category 1
 - Aquatic Toxicity (Chronic), Category 2
 - Specific Target Organ Toxicity (single exposure), Category 1
- 2.2 Label Elements:**



GHS Signal Word: Danger

GHS Hazard Phrases:

H226: Flammable liquid and vapor. H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H316: Causes mild skin irritation.
H319: Causes serious eye irritation. H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
H411: Toxic to aquatic life with long lasting effects.



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GHS Precaution Phrases:

- P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 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.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P281: Use personal protective equipment as required.
 P362+364: Take off contaminated clothing and wash it before reuse.

GHS Response Phrases:

- P370+378: In case of fire, use carbon dioxide, foam, dry chemical or water spray to
 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.
 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:

- P405: Store locked up.
 P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3 Adverse Human Health No data available.**Effects and Symptoms:**

Medical Conditions Pre-existing skin, respiratory, or other disorders may be aggravated.

Generally Aggravated**By Exposure:**

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
68334-30-5	Diesel fuel	95.0 -96.0 %	269-822-7 649-224-00-6	Carcinogen 2: H351
111-76-2	Ethanol, 2-Butoxy-	1.5 -2.5 %	203-905-0 603-014-00-0	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Skin Corr. 2: H315 Eye Damage 2A: H319 Acute Tox.(I) 4: H332
91-20-3	Naphthalene	< 0.5 %	202-049-5 601-052-00-2	Acute Tox.(O) 4: H302 Carcinogen 2: H351 Aquatic (A) 1: H400 Aquatic (C) 1: H410
95-63-6	1,2,4-Trimethylbenzene	< 0.5 %	202-436-9 601-043-00-3	Flam. Liq. 3: H226 Skin Corr. 2: H315 Eye Damage 2: H319 Acute Tox.(I) 4: H332



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64742-94-5	Solvent naphtha (petroleum), Heavy arom.	< 1.0 %	265-198-5 649-424-00-3	STOT (SE) 3: H335 H336 Aquatic (C) 2: H411 Asp. Toxic. 1: H304
1330-20-7	Xylene (mixed isomers)	< 0.5 %	215-535-7 601-022-00-9	Flam. Liq. 3: H226 Acute Tox.(D) 4: H312 Skin Corr. 2: H315 Acute Tox.(I) 4: H332

Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** 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.

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Carbon dioxide, foam, dry chemical or water spray.
- 5.2 Flammable Properties and Hazards:** No data available.
- Hazardous Combustion Products:** Carbon monoxide and dioxide, partially burnt hydrocarbon gas.
- Flash Pt:** 131.00 F (55.0 C) Method Used: Closed Cup
- Explosive Limits:** LEL: N.D. UEL: N.D.
- Autoignition Pt:** No data.
- 5.3 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.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions, Protective Equipment and Emergency Procedures:** No data available.
- 6.2 Environmental Precautions:** No data available.
- 6.3 Methods and Material For Containment and Cleaning Up:** 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.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash it before reuse. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Keep out of reach of children.
- 7.2 Precautions To Be Taken in Storing:** Store locked up.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
68334-30-5	Diesel fuel	ACGIH TLV	TLV: 100 mg/m3	
111-76-2	Ethanol, 2-Butoxy-	ACGIH TLV	TLV: 20 ppm	
		Europe	TWA: 98 mg/m3 (20 ppm) STEL: 246 mg/m3 (50 ppm)	Skin Absorption
		France VL	TWA: 9.8 mg/m3 (2 ppm) STEL: 147.6 mg/m3 (30 ppm)	
		OSHA PELs Britain EH40	PEL: 50 ppm TWA: 123 mg/m3 (25 ppm) STEL: 246 mg/m3 (50 ppm)	Skin Absorption
91-20-3	Naphthalene	ACGIH TLV	TLV: 10 ppm STEL: 15 ppm	
		Europe	TWA: 50 mg/m3 (10 ppm)	
		France VL	TWA: 50 mg/m3 (10 ppm)	
		OSHA PELs	PEL: 10 ppm	
95-63-6	1,2,4-Trimethylbenzene	Europe	TWA: 100 mg/m3 (20 ppm)	
		France VL	TWA: 100 mg/m3 (20 ppm) STEL: 250 mg/m3 (50 ppm)	
1330-20-7	Xylene (mixed isomers)	ACGIH TLV	TLV: 100 ppm STEL: 150 ppm	
		Europe	TWA: 221 mg/m3 (50 ppm) STEL: 442 mg/m3 (100 ppm)	Skin Absorption
		France VL	TWA: 221 mg/m3 (50 ppm) STEL: 442 mg/m3 (100 ppm)	
		OSHA PELs	PEL: 100 ppm	
		Britain EH40	TWA: 220 mg/m3 (50 ppm) STEL: 441 mg/m3 (100 ppm)	



8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Required when spraying or using at elevated temperatures that may generate oil mists. Use explosion proof ventilation system.

8.2.2 Personal protection equipment:

- 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.
- Respiratory Equipment (Specify Type):** Assure adequate ventilation to keep oil mists under safe limits. When necessary, wear proper NIOSH approved respirators or SCBA.
- 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.
- No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

- Physical States:** [] Gas [X] Liquid [] Solid
- Appearance and Odor:** Red liquid with hydrocarbon, aromatic odor.
- pH:** NP
- Melting Point:** No data.
- Boiling Point:** 300.00 F (148.9 C)
- 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):** mmHg 20c:0.5
- Vapor Density (vs. Air = 1):** > 2
- Specific Gravity (Water = 1):** .91
- Solubility in Water:** Negligible
- Octanol/Water Partition Coefficient:** No data.
- Autoignition Pt:** No data.
- Decomposition Temperature:** No data.
- Viscosity:** No data.

9.2 Other Information

Percent Volatile: No data.



Section 10. Stability and Reactivity

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

Section 11. Toxicological Information

- 11.1 Information on Toxicological Effects:** No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68334-30-5	Diesel fuel	n.a.	2B	A3	n.a.
111-76-2	Ethanol, 2-Butoxy-	n.a.	3	A3	n.a.
91-20-3	Naphthalene	Possible	2B	A4	n.a.
95-63-6	1,2,4-Trimethylbenzene	n.a.	n.a.	n.a.	n.a.
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	n.a.	n.a.	n.a.	n.a.
1330-20-7	Xylene (mixed isomers)	n.a.	3	A4	n.a.

Section 12. Ecological Information

- 12.1 Toxicity:** 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.
- 12.2 Persistence and Degradability:** No data available.
- 12.3 Bioaccumulative Potential:** No data available.
- 12.4 Mobility in Soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** No data available.
- 12.6 Other adverse effects:** No data available.



Section 13. Disposal Considerations

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

Section 14. Transport Information

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Flammable Liquid, n.o.s. (#2 Diesel Fuel, 1,2,4 Trimethylbenzene, Xylene, Solvent Naphtha)
UN Number: 1993 **Packing Group:** III
Hazard Class: 3 - FLAMMABLE LIQUID **ADR Classification:** 3

14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Flammable Liquid, n.o.s. (#2 Diesel Fuel, 1,2,4 Trimethylbenzene, Xylene, Solvent Naphtha)
UN Number: 1993 **Packing Group:** III
Hazard Class: 3 - FLAMMABLE LIQUID **IMDG Classification:** 3
IMDG EMS Page: **IMDG MFAG Number:** **Marine Pollutant:** No

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Flammable Liquid, n.o.s. (#2 Diesel Fuel, 1,2,4 Trimethylbenzene, Xylene, Solvent Naphtha)
UN Number: 1993 **Packing Group:** III
Hazard Class: 3 - FLAMMABLE LIQUID **IATA Classification:** 3

Section 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)
68334-30-5	Diesel fuel	No	No	No
111-76-2	Ethanol, 2-Butoxy-	No	No	Yes-Cat. N230
91-20-3	Naphthalene	No	Yes 100 LB	Yes
95-63-6	1,2,4-Trimethylbenzene	No	No	Yes
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	No	No	No
1330-20-7	Xylene (mixed isomers)	No	Yes 100 LB	Yes

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

68334-30-5	Diesel fuel	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
111-76-2	Ethanol, 2-Butoxy-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Yes - Cat.; NC TAP: Yes - Cat.; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: Yes - 1; SC TAP: Yes - Cat.; WI Air: Yes
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



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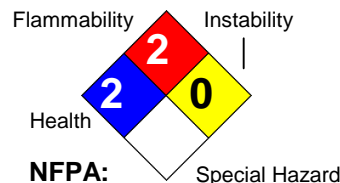
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95-63-6	1,2,4-Trimethylbenzene	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 2716; NY Part 597: No; PA HSL: Yes - E; SC TAP: No; WI Air: No
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
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
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
68334-30-5	Diesel fuel	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
111-76-2	Ethanol, 2-Butoxy-	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
91-20-3	Naphthalene	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
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
1330-20-7	Xylene (mixed isomers)	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Section 16. Other Information

Revision Date: 07/20/2017

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

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