



1. Product and Company Identification

Product Code: C21
Product Name: Diesel Fuel Injector Cleaner
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: Diesel fuel treatment

2. Hazards Identification

Flammable Liquids, Category 3
Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 4
Acute Toxicity: Skin, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Carcinogenicity, Category 2
Specific Target Organ Toxicity (single exposure), Category 3
Specific Target Organ Toxicity (repeated exposure), Category 2
Aspiration Toxicity, Category 1
Germ Cell Mutagenicity, Category 2



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.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.
H341: Suspected of causing genetic defects.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposure.
H410: Very 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.
P240: Ground/bond container and receiving equipment.
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/vapours/spray.



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- 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.
- 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.
- P370+378: In case of fire, use foam, alcohol foam, carbon dioxide, dry chemical or water fog for extinction.
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331: 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.
- P332+313: If skin irritation occurs, get medical advice/attention.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+313: If eye irritation persists, get medical advice/attention.
- P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

GHS Response Phrases:

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.

Medical Conditions Generally Aggravated By Exposure: Pre-existing respiratory and respiratory disorders may be aggravated.

Aggravated By Exposure:

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
68334-30-5	Diesel fuel	80.0 -90.0 %
108-05-4	Vinyl acetate	< 2.0 %
91-20-3	Naphthalene	< 2.0 %
111-76-2	Ethanol, 2-Butoxy-	< 2.0 %
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	< 1.0 %
95-63-6	1,2,4-Trimethylbenzene	< 1.0 %
NA	Oxygenated Hydrocarbons	< 2.0 %



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 area with soap and water. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flash Pt: 130.00 F (54.4 C) Method Used: TAG Closed Cup

Explosive Limits: LEL: No data. UEL: No data.

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 Products: Carbon monoxide and dioxide, partially burnt hydrocarbon gas.

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 an 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. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. 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.

Precautions To Be Taken in Storing: Store in a cool, well-ventilated place away from incompatible materials. Store locked up.



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8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68334-30-5	Diesel fuel	No data.	TLV: 100 mg/m3	No data.
108-05-4	Vinyl acetate	No data.	TLV: 10 ppm STEL: 15 ppm	No data.
91-20-3	Naphthalene	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	No data.
111-76-2	Ethanol, 2-Butoxy-	PEL: 50 ppm	TLV: 20 ppm	No data.
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	No data.	No data.	No data.
95-63-6	1,2,4-Trimethylbenzene	No data.	No data.	No data.
NA	Oxygenated Hydrocarbons	No data.	No data.	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. Have suitable eye wash water available.
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:	Wash hands with plenty of soap and water before eating, drinking, smoking, or using toilet facilities. Take shower after work if general skin contact occurs. Remove oil soaked clothing and launder before reuse. Launder or discard contaminated leather gloves and shoes.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid	
Appearance and Odor:	Amber, clear liquid with amine, aromatic odor.	
pH:	NP	
Melting Point:	No data.	
Boiling Point:	No data.	
Flash Pt:	130.00 F (54.4 C) Method Used: TAG Closed Cup	
Evaporation Rate:	NP	
Flammability (solid, gas):	No data available.	
Explosive Limits:	LEL: No data.	UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	3 at 100.0 F (37.8 C)	
Vapor Density (vs. Air = 1):	NP	
Specific Gravity (Water = 1):	.90 at 60.0 F (15.6 C)	
Solubility in Water:	Negligible	



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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, strong oxidizers.
Incompatibility - Materials To Avoid: Strong oxidizing agents.
Hazardous Decomposition or Byproducts: Oxides of nitrogen and carbon monoxide.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information: The International Agency for Research on Cancer (IARC) evaluated vinyl acetate in 1995 and found it to be a possible human carcinogen, Classification 2B. The American Conference of Governmental Industrial Hygienists (ACGIH) has evaluated vinyl acetate and found it to be a group A3, animal carcinogen. The ACGIH also reported that available evidence suggests that the agent is not likely to cause cancer in humans at the recommended exposure levels.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68334-30-5	Diesel fuel	n.a.	2B	A3	n.a.
108-05-4	Vinyl acetate	n.a.	2B	A3	n.a.
91-20-3	Naphthalene	Possible	2B	A4	n.a.
111-76-2	Ethanol, 2-Butoxy-	n.a.	3	A3	n.a.
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	n.a.	n.a.	n.a.	n.a.
95-63-6	1,2,4-Trimethylbenzene	n.a.	n.a.	n.a.	n.a.
NA	Oxygenated Hydrocarbons	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

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

14. Transport Information



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Diesel Fuel Injector Cleaner

Revision: 09/06/2017
Supersedes Revision: 10/06/2014

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Flammable liquids, n.o.s. (Clear Diesel Fuel, Vinyl Acetate, 1,2,4 Trimethylbenzene, Napthalene), 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 liquids, n.o.s. (Clear Diesel Fuel, Vinyl Acetate, 1,2,4 Trimethylbenzene, Napthalene), 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 liquids, n.o.s. (Clear Diesel Fuel, Vinyl Acetate, 1,2,4 Trimethylbenzene, Napthalene), Ltd. Qty.
UN Number: 1993 **Packing Group:** III
Hazard Class: 3 - FLAMMABLE LIQUID **IMDG Classification:** 3
IMDG MFAG Number:

IMDG EMS Page:**AIR TRANSPORT (ICAO/IATA):**

ICAO/IATA Shipping Name: Flammable liquids, n.o.s. (Clear Diesel Fuel, Vinyl Acetate, 1,2,4 Trimethylbenzene, Napthalene), 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)
68334-30-5	Diesel fuel	No	No	No
108-05-4	Vinyl acetate	Yes 1000 LB	Yes 5000 LB	Yes
91-20-3	Naphthalene	No	Yes 100 LB	Yes
111-76-2	Ethanol, 2-Butoxy-	No	No	Yes-Cat. N230
64742-94-5	Solvent naphtha (petroleum), Heavy arom.	No	No	No
95-63-6	1,2,4-Trimethylbenzene	No	No	Yes
NA	Oxygenated Hydrocarbons	No	No	No

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
108-05-4	Vinyl acetate	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: Part 5; NC TAP: Yes; NJ EHS: Yes - 1998; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; 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
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;



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Revision: 09/06/2017

Supersedes Revision: 10/06/2014

64742-94-5 Solvent naphtha (petroleum), Heavy arom.

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

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: 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
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

NA Oxygenated Hydrocarbons

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

CAS # Hazardous Components (Chemical Name)

International Regulatory Lists

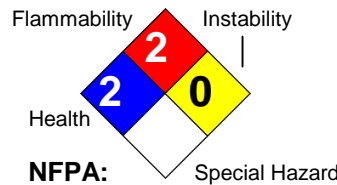
68334-30-5	Diesel fuel
108-05-4	Vinyl acetate
91-20-3	Naphthalene
111-76-2	Ethanol, 2-Butoxy-
64742-94-5	Solvent naphtha (petroleum), Heavy arom.
95-63-6	1,2,4-Trimethylbenzene
NA	Oxygenated Hydrocarbons

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: 146-01 (4)
Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No

16. Other Information

Revision Date: 09/06/2017

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

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