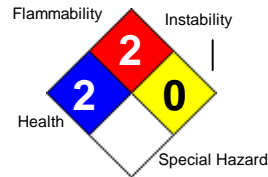




MATERIAL SAFETY DATA SHEET

Diesel Fuel Additive

CYCLO INDUSTRIES, INC.
902 SOUTH US HIGHWAY 1
JUPITER, FL 33477



Revision: 01/30/2012
Supersedes Revision: 10/06/2010
Date Created: 10/06/2010

1. Product and Company Identification

Product Code: C-DFA
Product Name: Diesel Fuel Additive
Manufacturer Information
Company Name: CYCLO INDUSTRIES, INC.
Phone Number: (800)843-7813
Fax Number: (561)745-3867
Emergency Contact: First Aid Emergency (800)222-1222
Alternate Emergency Contact: Chemtrec (703) 527-3887 (800)424-9300
Information: First Aid Emergency (Outside U.S.) (312)906-6194
Web site address: www.cyclo.com
Email address: ehs@cyclo.com

2. Hazards Identification

Emergency Overview

DANGER: Harmful or fatal if swallowed. Vapor harmful. Eye & skin irritant.

Potential Health Effects (Acute and Chronic)

Eye Contact: May cause temporary discomfort or moderate irritation to the eyes.

Skin Contact: Expected to be a skin irritant. Symptoms of overexposure include nausea and dizziness. Prolonged and repeated contact can cause defatting and drying of the skin resulting in skin irritation and dermatitis.

Inhalation: Vapors are moderately irritating to the respiratory passages. Prolonged exposure to high vapor concentration can cause headache, dizziness, nausea, blurred vision and central nervous system depression.

Ingestion: Liquid can directly enter the lungs (aspiration) when swallowed or vomited. Serious lung damage and possibly fatal chemical pneumonia (chemical pneumonitis) can develop if this occurs.

Recommended Exposure Limits

Stoddard solvent: 100 ppm, 525 mg/mg³ (TLV/TWA) ACGIH.

Signs and Symptoms Of Exposure

No data available.

Medical Conditions Generally Aggravated By Exposure

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Solvent naphtha medium aliphatic	64742-88-7	70.0 %
2. Xylene (mixed isomers)	1330-20-7	5.0 -25.0 %
3. Naphthalene	91-20-3	5.0 -25.0 %



4. First Aid Measures

Emergency and First Aid Procedures

If swallowed, do not induce vomiting. Give two glasses of water (16 oz.). If vomiting occurs naturally, have victim lean over to avoid aspiration; or to guard against aspiration into lungs have victim turn to their left side. Do not give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head lower than hips to prevent aspiration of liquid into the lungs. If inhaled, remove victim to fresh air and restore breathing, if required. If necessary, give artificial respiration, preferably mouth-to-mouth. Give oxygen if necessary. In case of skin contact, remove contaminated clothing and shoes. Wipe off excess material from exposed area. Flush with large amounts of water for at least 20 minutes and follow by washing with soap for 15 minutes if available. In case of eye contact, flush eyes with plenty of water for 15 minutes while holding eyelids open. Rest eyes for 30 minutes. Call physician immediately if adverse reaction occurs.

Note to Physician

The main hazard following accidental ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. If more than 2.0 mL/kg has been ingested, vomiting should be induced with supervision. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before vomiting, gastric lavage with a cuffed endotracheal tube should be considered.

5. Fire Fighting Measures

Flash Pt: 145.00 F (62.8 C) Method Used: TAG Closed Cup

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

Autoignition Pt: No data available.

Fire Fighting Instructions

Caution: Combustible. Vapor forms a flammable/explosive with air between upper and lower flammable limits. Do not enter confined air space without adequate protective clothing and an approved positive pressure self-contained breathing apparatus. Exclude air. Do not use water except as fog. Product will float and can be re-ignited on surface of water. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build-up, which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

Flammable Properties and Hazards

No data available.

Hazardous Combustion Products

No data available.

Suitable Extinguishing Media

Water fog, foam, carbon dioxide or dry chemical to extinguish flames. Do not use a direct stream of water. Material will float and can be re-ignited on surface of water.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Issue warning "COMBUSTIBLE". Eliminate all ignition sources. Handling equipment must be grounded. Isolate hazard area and restrict access. Try to work upwind of spill. Avoid direct contact with material. Wear appropriate breathing apparatus (if applicable) and protective clothing. Stop leak only if safe to do so. Dike and contain land spills; contain water spills by booming. Use water fog to knock down vapors; contain runoff. For large spills remove by mechanical means and place in containers. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal. Recommended materials: clay or sand. Flush area with water to remove trace residue.

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

Combustible. Hot surfaces may be sufficient to ignite liquid even in the absence of sparks or flames. Vapors may accumulate and travel to distant ignition sources and flash back. Empty containers are hazardous and may contain flammable/explosive dusts, residues, or vapors. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone. Do not pressurize drum containers to empty them. Air dry contaminated clothing in a well ventilated area before laundering. Avoid breathing vapors and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Use good personal hygiene. Use explosion-proof ventilation to prevent vapor accumulation while in use. Wash with soap and water before eating, drinking, smoking, applying cosmetics or using toilet facilities. Keep containers closed when not in use. Keep out of the reach of children.

Precautions To Be Taken in Storing

Store in a cool, dry, well ventilated area, away from heat and ignition sources.

Other Precautions

Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. Solvent naphtha medium aliphatic	64742-88-7	No data.	No data.	No data.
2. Xylene (mixed isomers)	1330-20-7	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.
3. Naphthalene	91-20-3	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	No data.

Respiratory Equipment (Specify Type)

If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. Use a NIOSH approved chemical cartridge respirator with organic vapor cartridges or use a NIOSH approved supplied air respirator. For high airborne concentrations, use a NIOSH approved supplied air respirator, either self contained or airline breathing apparatus, operated in a positive pressure mode.

Eye Protection

Avoid contact with eyes. Wear safety glasses or goggles as appropriate.

Protective Gloves

Impervious gloves (viton, nitrile) should be worn at all times when handling this material.

Other Protective Clothing

In confined spaces or where the risk of skin exposure is much higher, impervious clothing should be worn.

Engineering Controls (Ventilation etc.)

Use explosion-proof ventilation as required to control vapor concentrations. Concentrations in air should be maintained below the recommended threshold limit value if unprotected personnel are involved. For personnel entry into confined spaces (i.e. bulk storage tanks) a proper confined space entry procedure must be followed including ventilation and testing of tank atmosphere. Local ventilation recommended where mechanical ventilation is ineffective in controlling airborne concentrations below the recommended occupational exposure limit. Mechanical ventilation is recommended for all indoor situations to control fugitive emissions.

Work/Hygienic/Maintenance Practices

Safety showers should be available. Provide eyewash stations in the area. Air dry contaminated clothing in a well ventilated area then launder before reusing.



9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Melting Point:	No data.
Boiling Point:	365.00 F (185.0 C) - 419.00 F (215.0 C)
Autoignition Pt:	No data.
Flash Pt:	145.00 F (62.8 C) Method Used: TAG Closed Cup
Specific Gravity (Water = 1):	0.768
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate (vs Butyl Acetate=1):	0.04
Solubility in Water:	Insoluble
Percent Volatile:	No data.
VOC / Volume:	6.5000 LB/GA
Viscosity:	2 at 25.0 C (77.0 F)

Appearance and Odor

Light amber liquid. Hydrocarbon and somewhat fruity odor.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

Excessive heat, open flames, and all ignition sources.

Incompatibility - Materials To Avoid

Strong oxidizing agents and acids.

Hazardous Decomposition Or Byproducts

No data available.

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

Conditions To Avoid - Hazardous Reactions

No data available.

11. Toxicological Information

Neurotoxicity: Repeated exposures that cause acute neurological effects may also cause long-term neurological deficits in humans.

Other Health Effects (Chronic): This product contains naphthalene. Literature data indicates that repeated or prolonged exposure by inhalation can cause kidney, eye nerve damage, corneal ulceration, liver damage and cataracts of the eye.

Chronic Toxicological Effects

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Solvent naphtha medium aliphatic	64742-88-7	n.a.	n.a.	n.a.	n.a.
2. Xylene (mixed isomers)	1330-20-7	n.a.	n.a.	A4	n.a.
3. Naphthalene	91-20-3	Possible	2B	A4	n.a.



12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method

Disposal should be made in accordance with federal, state and local regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not-Restricted

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name Not-Restricted

Additional Transport Information

No data available.

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Solvent naphtha medium aliphatic	64742-88-7	No	No	No	No
2. Xylene (mixed isomers)	1330-20-7	No	Yes 100 LB	Yes	Yes
3. Naphthalene	91-20-3	No	Yes 100 LB	Yes	Yes

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Solvent naphtha medium aliphatic	64742-88-7	No	No	Inventory	No
2. Xylene (mixed isomers)	1330-20-7	HAP	Yes	Inventory	No
3. Naphthalene	91-20-3	HAP	Yes	Inventory, 8A PAIR	Yes

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. Solvent naphtha medium aliphatic	64742-88-7	No	No	No	No
2. Xylene (mixed isomers)	1330-20-7	TAC, Title 8	Yes	CMR, Part 5	Yes
3. Naphthalene	91-20-3	TAC, Title 8	Yes	Part 5	Yes

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Solvent naphtha medium aliphatic	64742-88-7	Yes - 4006	No	No	No
2. Xylene (mixed isomers)	1330-20-7	Yes - 2014	Yes	Yes - E	Yes
3. Naphthalene	91-20-3	Yes - 1322	Yes	Yes - E	Yes

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Solvent naphtha medium aliphatic	64742-88-7	No
2. Xylene (mixed isomers)	1330-20-7	Yes
3. Naphthalene	91-20-3	Yes

International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Solvent naphtha medium aliphatic	64742-88-7	Yes	No	No
2. Xylene (mixed isomers)	1330-20-7	Yes	No	No
3. Naphthalene	91-20-3	Yes	No	No

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

Sec.302:

EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.

Sec.304:

EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.



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- Sec.313:** EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110:** EPA SARA 110 Superfund Site Priority Contaminant List

TSCA (Toxic Substances Control Act) Lists:

- Inventory:** Chemical Listed in the TSCA Inventory.
- 5A(2):** Chemical Subject to Significant New Rules (SNURS)
- 6A:** Commercial Chemical Control Rules
- 8A:** Toxic Substances Subject To Information Rules on Production
- 8A CAIR:** Comprehensive Assessment Information Rules - (CAIR)
- 8A PAIR:** Preliminary Assessment Information Rules - (PAIR)
- 8C:** Records of Allegations of Significant Adverse Reactions
- 8D:** Health and Safety Data Reporting Rules
- 8D TERM:** Health and Safety Data Reporting Rule Terminations
- 12(b):** Notice of Export

Other Important Lists:

- CWA NPDES:** EPA Clean Water Act NPDES Permit Chemical
- CAA HAP:** EPA Clean Air Act Hazardous Air Pollutant
- CAA ODC:** EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
- CA PROP 65:** California Proposition 65
- CA TAC:** California AB 1807 - Toxic Air Contaminants
- CA Title 8:** California Hazardous Substances List: Title 8, Sec. 339
- MI CMR:** Michigan Critical Materials Register
- MI Part 5:** Michigan DEQ WRP Part 5 Pollutants List
- NC TAP:** North Carolina Toxic Air Pollutants
- NJ EHS:** New Jersey Environmental Hazardous Substances List
- NY Part 597:** New York Part 597 List of Hazardous Substances
- PA HSL:** Pennsylvania Hazardous Substances List
- SC TAP:** South Carolina Toxic Air Pollutants
- WI Air:** Wisconsin Reportable Air Contaminants

International Regulatory Lists:

- Canadian DSL:** Canada Domestic Substances List
- Canadian NDSL:** Canada Non-Domestic Substances List
- Taiwan TCSCA:** Taiwan Toxic Chemical Substances Control Act of 1986

16. Other Information

Company Policy or Disclaimer

Cyclo Industries, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Cyclo Industries, Inc. makes no representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Cyclo Industries, Inc. will not be responsible for damages resulting from use of or reliance upon this information.