

1. Product and Company Identification

Product Code: C43, C43D
Product Name: Gas Treatment
Company Name: CYCLO INDUSTRIES
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: CHEMTREC (800)424-9300
001 (703)741-5970

Intended Use:**2. Hazards Identification**

Acute Toxicity: Inhalation, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2B
Carcinogenicity, Category 2
Specific Target Organ Toxicity (repeated exposure), Category 2
Aspiration Toxicity, Category 1
Aquatic Toxicity (Chronic), Category 2
Flammable Liquids, Category 4



GHS Signal Word: **Danger**

GHS Hazard Phrases: H227 - Combustible liquid.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
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, hot surfaces, sparks, open flames and other ignition source.
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.

GHS Response Phrases: P370+378 - In case of fire, use foam, alcohol foam, carbon dioxide, dry chemical or water fog to extinguish.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+341 - IF INHALED: If breathing is difficult, remove 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



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clothing. Rinse skin with water/shower.

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 - Store in well-ventilated place.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
68476-34-6	Diesel #2	90.0 -95.0 %
111-76-2	Ethanol, 2-Butoxy-	3.0 -5.0 %
91-20-3	Naphthalene	1.0 -2.0 %
104-76-7	1-Hexanol, 2-Ethyl-	0.5 -1.5 %
NA	Polymer/amine	< 1.0 %
NA	hydroxyethylated aminoethylamide	< 1.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

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

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

Indication of any immediate medical attention and special treatment needed:

Most important symptoms & effects both acute & delayed: Most important known symptoms & effects are described in the Labeling Section (see Section 2).

5. Fire Fighting Measures

Flash Pt: 46.60 C (115.9 F) Method Used: Pensky-Marten Closed Cup

Explosive Limits: LEL: N.E. UEL: N.E.

Autoignition Pt: >= 260.00 C (500.0 F)

Suitable Extinguishing Media: Dry chemical, CO2, water spray or alcohol-resistant foam.

Fire Fighting Instructions: Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

Flammable Properties and

Hazards:

Hazardous Combustion

Products:



6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Eliminate sources of ignition. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

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, hot surfaces, sparks, open flams and other ignition source. 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.
Keep out of the reach of children.

Precautions To Be Taken in Storing: 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		TLV: 100 mg/m3	
111-76-2	Ethanol, 2-Butoxy-	PEL: 50 ppm	TLV: 20 ppm	
91-20-3	Naphthalene	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	
104-76-7	1-Hexanol, 2-Ethyl-			
NA	Polymer/amine			
NA	hydroxyethylated aminoethylamide	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
68476-34-6	Diesel #2	Ontario, CA	TWA: 100 mg/m3 (Inhalable aerosol and vapor)	
111-76-2	Ethanol, 2-Butoxy-	Austria	TWA: 96.9 mg/m3 (20 ppm) STEL: 242 mg/m3 (50 ppm)	Skin Absorption
		California, USA PELs	TWA: 97 mg/m3 (20 ppm)	
		Ontario, CA	TWA: 20 ppm	
		Québec, CA	TWA: 97 mg/m3 (20 ppm)	
		Europe	TWA: 98 mg/m3 (20 ppm) STEL: 246 mg/m3 (50 ppm)	Skin Absorption
		Mexico OEL	TWA: 120 mg/m3 (26 ppm) STEL: 360 mg/m3 (75 ppm)	Skin Absorption
		NIOSH	TWA: 5 ppm	
91-20-3	Naphthalene	New Zealand	TWA: 121 mg/m3 (25 ppm)	
		Austria	TWA: 52 mg/m3 (10 ppm) STEL: 79 mg/m3 (15 ppm)	
		California, USA PELs	TWA: 10 ppm STEL: 15 ppm TWA: 0.5 mg/m3 (0.1 ppm)	Skin Absorption
		Ontario, CA	TWA: 10 ppm STEL: 15 ppm	
		China	TWA: 50 mg/m3	



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Supersedes Revision: 01/03/2018

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
91-20-3 (continued)	Naphthalene	Québec, CA	STEL: 75 mg/m3 (15 min) TWA: 52 mg/m3 (10 ppm) STEL: 79 mg/m3 (15 ppm)	
		Europe	TWA: 50 mg/m3 (10 ppm)	
		Mexico OEL	TWA: 50 mg/m3 (10 ppm) STEL: 75 mg/m3 (15 ppm)	
		NIOSH	TWA: 50 mg/m3 (10 ppm) STEL: 75 mg/m3 (15 ppm)	
		New Zealand	TWA: 52 mg/m3 (10 ppm) STEL: 79 mg/m3 (15 ppm)	

Respiratory Equipment (Specify Type):	NIOSH/MSHA approved respirator when exposure is expected to exceed applicable limits.
Eye Protection:	Safety goggles or safety glasses with side shields.
Protective Gloves:	Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride and polyurethane gloves to prevent skin contact.
Other Protective Clothing:	Clothes to prevent skin contact.
Engineering Controls (Ventilation etc.):	Local exhaust ventilation as necessary to maintain exposures within applicable limits.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Clear red liquid with mild petroleum odor.
pH:	NE
Melting Point:	NE
Boiling Point:	> 360.00 F (182.2 C) - 550.00 F (287.8 C)
Flash Pt:	46.60 C (115.9 F) Method Used: Pensky-Marten Closed Cup
Evaporation Rate:	NE
Flammability (solid, gas):	
Explosive Limits:	LEL: N.E. UEL: N.E.
Vapor Pressure (vs. Air or mm Hg):	1 - 10 MM_HG at 100.0 F (37.8 C)
Vapor Density (vs. Air = 1):	4 - 5
Specific Gravity (Water = 1):	.81 - .85
Density:	6.87 - 7.06 LB/GA
Solubility in Water:	NE
Saturated Vapor Concentration:	NE
Octanol/Water Partition Coefficient:	
Percent Volatile:	10.0 % by weight.
Autoignition Pt:	>= 260.00 C (500.0 F)
Decomposition Temperature:	NE
Viscosity:	water thin



10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Keep away from heat, sparks & flame.

Instability:

Incompatibility - Materials To Avoid: Acids. Oxidizing materials.

Hazardous Decomposition or Byproducts: Oxides of carbon.

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

Conditions To Avoid -

Hazardous Reactions:

11. Toxicological Information

Toxicological Information:

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68476-34-6	Diesel #2	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.
104-76-7	1-Hexanol, 2-Ethyl-	n.a.	n.a.	n.a.	n.a.
NA	Polymer/amine	n.a.	n.a.	n.a.	n.a.
NA	hydroxyethylated aminoethylamide	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

13. Disposal Considerations

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

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Flammable Liquid, n.o.s (Diesel #2), (Diesel #2), III.
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN1993 **Packing Group:** III

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Flammable Liquid, n.o.s (Diesel #2), , III.

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Flammable Liquid, n.o.s (Diesel #2), , III.
UN Number: 1993 **Packing Group:** III
Hazard Class: 3 - FLAMMABLE LIQUID

MARINE TRANSPORT (IMDG/IMO):

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



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AIR TRANSPORT (ICAO/IATA):**ICAO/IATA Shipping Name:** Flammable Liquid, n.o.s (Diesel #2), , III.

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
111-76-2	Ethanol, 2-Butoxy-	No	No	Yes-Cat. N230
91-20-3	Naphthalene	No	Yes 100 LB	Yes
104-76-7	1-Hexanol, 2-Ethyl-	No	No	No
NA	Polymer/amine	No	No	No
NA	hydroxyethylated aminoethylamide	No	No	No

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; FIFRA: Yes - Active - 063514: Unspecified; FDA/DEA CSA: 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
111-76-2	Ethanol, 2-Butoxy-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; FIFRA: Yes - Active - 011501: Am/CC, Inert: F/NF/Fr; FDA/DEA CSA: No; CA PROP.65: No; CA TAC, Title 8: TAC: Cat. IIa, 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: VHAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 8A PAIR; FIFRA: Yes - Active - 055801: Am/CC, Inert: NF/Fr; FDA/DEA CSA: No; CA PROP.65: Yes: Canc.; CA TAC, Title 8: TAC: Cat. IIa, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes: US HAP; NJ EHS: Yes - 1322; NY Part 597: Yes: HS; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
104-76-7	1-Hexanol, 2-Ethyl-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; FIFRA: Yes - Active - 079098: Am, Inert: F/NF/Fr; FDA/DEA CSA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
NA	Polymer/amine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; FIFRA: No; FDA/DEA CSA: 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
NA	hydroxyethylated aminoethylamide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; FIFRA: No; FDA/DEA CSA: 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**

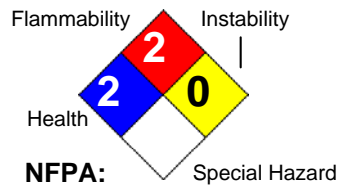
68476-34-6	Diesel #2	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 9-1700; Japan ISHL: No; Korea
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111-76-2	Ethanol, 2-Butoxy-	ECL: Yes - KE-17287; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; REACH: Yes - 01-2119475502-40: Full, (P) Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 7-97; Japan ISHL: No; Korea ECL: Yes - KE-04134; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; REACH: Yes - 01-2119475108-36: Full, (P)
91-20-3	Naphthalene	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 9-2603; Japan ISHL: No; Korea ECL: Yes - KE-25545; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; REACH: Yes - 01-2119561346-37: Full, (P)
104-76-7	1-Hexanol, 2-Ethyl-	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-217; Japan ISHL: No; Korea ECL: Yes - KE-13766; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; REACH: Yes - 01-2119487289-20: Full, (P)
NA	Polymer/amine	Canadian DSL: No; Canadian NDSL: No; Mexico INSQ: No; Australia ICS: No; New Zealand IOC: No; China IECSC: No; Japan ENCS: No; Japan ISHL: No; Korea ECL: No; Philippines ICCS: No; Taiwan TCSCA: No; Singapore HSL: No; REACH: No
NA	hydroxyethylated aminoethylamide	Canadian DSL: No; Canadian NDSL: No; Mexico INSQ: No; Australia ICS: No; New Zealand IOC: No; China IECSC: No; Japan ENCS: No; Japan ISHL: No; Korea ECL: No; Philippines ICCS: No; Taiwan TCSCA: No; Singapore HSL: No; REACH: No

16. Other Information

Revision Date: 09/25/2018

Hazard Rating System:



Additional Information About This Product:

Company Policy or Disclaimer:

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