

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830

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

- 1.1 Product Code:** C43
Product Name: Gas Treatment
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant identified uses:
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- | | | |
|--------------------------|---|---------------------------------------|
| Company Name: | CYCLO INDUSTRIES
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 | |
- 1.4 Emergency telephone number:**
- | | | |
|---------------------------|----------|------------------------------------|
| Emergency Contact: | CHEMTREC | (800)424-9300
001 (703)741-5970 |
|---------------------------|----------|------------------------------------|

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
- 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

- 2.2 Label Elements:**



GHS Signal Word: Danger

GHS Hazard Phrases:

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.



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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 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.

2.3 Adverse Human Health No data available.

Effects and Symptoms:

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
68476-34-6	Diesel #2	90.0 -95.0 %	270-676-1 649-227-00-2	Carcinogen 2: H351
111-76-2	Ethanol, 2-Butoxy-	3.0 -5.0 %	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	1.0 -2.0 %	202-049-5 601-052-00-2	Acute Tox.(O) 4: H302 Carcinogen 2: H351 Aquatic (A) 1: H400 Aquatic (C) 1: H410
104-76-7	1-Hexanol, 2-Ethyl-	0.5 -1.5 %	203-234-3 NA	Skin Corr. 2: H315 Eye Damage 2: H319 Acute Tox.(I) 4: H332 STOT (SE) 3: H335
NA	Polymer/amine	< 1.0 %	NA NA	No data available.
NA	hydroxyethylated aminoethylamide	< 1.0 %	NA NA	No data available.



Section 4. First Aid Measures

- 4.1 Description of First Aid** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- Measures:** 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.
- 4.3 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).

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Dry chemical, CO₂, water spray or alcohol-resistant foam.
- 5.2 Flammable Properties and Hazards:** No data available.
- 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)
- 5.3 Fire Fighting Instructions:** Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a 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. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Section 7. Handling and Storage

- 7.1 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 flames 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.



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Keep out of the reach of children.

7.2 Precautions To Be Taken in Storing: Store in cool/well-ventilated place. Store locked up.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations		
68476-34-6	Diesel #2	ACGIH TLV	TLV: 100 mg/m3			
		Ontario, CA	TWA: 100 mg/m3 (Inhalable aerosol and vapor)			
111-76-2	Ethanol, 2-Butoxy-	ACGIH TLV	TLV: 20 ppm			
		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			
		New Zealand	TWA: 121 mg/m3 (25 ppm)			
		OSHA PELs	PEL: 50 ppm			
91-20-3	Naphthalene	ACGIH TLV	TLV: 10 ppm STEL: 15 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 STEL: 75 mg/m3 (15 min)			
		Québec, CA	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)			
		OSHA PELs	PEL: 10 ppm			
		NA	hydroxyethylated aminoethylamide	ACGIH TLV	TLV: 200 ppm STEL: 400 ppm	
				OSHA PELs	PEL: 400 ppm	



8.2 Exposure Controls:

8.2.1 Engineering Controls Local exhaust ventilation as necessary to maintain exposures within applicable limits.
(Ventilation etc.):

8.2.2 Personal protection equipment:

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.

Respiratory Equipment

NIOSH/MSHA approved respirator when exposure is expected to exceed applicable limits.
(Specify Type):

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: 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

Saturated Vapor Concentration: NE

Flammability (solid, gas): No data available.

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

Octanol/Water Partition Coefficient: No data.

Autoignition Pt: >= 260.00 C (500.0 F)

Decomposition Temperature: NE

Viscosity: water thin

9.2 Other Information

Percent Volatile: 10.0 % by weight.



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:** Keep away from heat, sparks & flame.
- 10.5 Incompatibility - Materials To Avoid:** Acids. Oxidizing materials.
- 10.6 Hazardous Decomposition or Byproducts:** Oxides of carbon.

Section 11. Toxicological Information

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

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.

Section 12. Ecological Information

- 12.1 Toxicity:** No data available.
- 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 regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (European ADR/RID):

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

14.2 MARINE TRANSPORT (IMDG/IMO):

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

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Flammable Liquid, n.o.s (Diesel #2), , III Ltd Qty.

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)
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; 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, Inert: F/NF/Fr; FDA/DEA CSA: No; 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; FIFRA: Yes - Active - 055801, Inert: NF/Fr; FDA/DEA CSA: No; 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
104-76-7	1-Hexanol, 2-Ethyl-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; FIFRA: Yes - Active - 079098, Inert: F/NF/Fr; FDA/DEA CSA: No; CA PROP.65: No; CA TAC, Title



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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 ECL: Yes - KE-17287; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; REACH: Yes - (R), (P)

111-76-2

Ethanol, 2-Butoxy-

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 - (R), (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 - (R), (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 - (R), (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

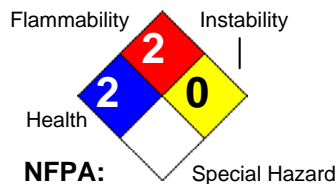
hydroxyethylated aminoethylamide

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

Section 16. Other Information

Revision Date: 04/02/2018

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

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