



MATERIAL SAFETY DATA SHEET

Max 44 Total System Cleaner

CYCLO INDUSTRIES, INC.
401 MAPLEWOOD DRIVE
SUITE 18
JUPITER, FL 33458

HEALTH		1
FLAMMABILITY		2
REACTIVITY		0
PPE		



Revision: 01/11/2010

Date Created: 01/11/2010

1. Product and Company Identification

Product Code:	C-44
Product Name:	Max 44 Total System Cleaner
Manufacturer Information	
Company Name:	CYCLO INDUSTRIES, INC.
Phone Number:	(800)843-7813
Fax Number:	(561)745-3867
Emergency Contact:	First Aid Emergency (800)752-7869
Alternate Emergency Contact:	Shipping Emergency (Chemtrec) (800)424-9300
Information:	Emergency (Outside the U.S.) (312)906-6194
Web site address:	www.cyclo.com
Email address:	ehs@cyclo.com
Supplier Name and Address	
Company Name:	CYCLO INDUSTRIES, INC.
Phone Number:	(800)843-7813
Fax Number:	(561)745-3867
Emergency Contact:	First Aid Emergency (800)752-7869
Alternate Emergency Contact:	Shipping Emergency (Chemtrec) (800)424-9300
Information:	Emergency (Outside the U.S.) (312)906-6194
Web site address:	www.cyclo.com
Email address:	ehs@cyclo.com

2. Hazards Identification

Emergency Overview

Vapors, mist and fumes are hazardous. Do not inhale.

Health Hazards (Acute and Chronic)

Acute Exposure Effects: Central nervous system depression, peripheral nervous system depression, narcosis, asphyxiation, gastrointestinal disturbances, and eye and skin irritation.

Chronic Exposure Effect: Dermatitis, pneumonitis, pulmonary edema and kidney damage.

Signs and Symptoms Of Exposure

Headache, drowsiness, eye, respiratory or skin irritation, nausea, numbness.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Fuel oil, no. 2	68476-30-2	<90.0 %
2. Xylene (mixed isomers)	1330-20-7	No Data.
3. Ethylbenzene	100-41-4	No Data.
4. Naphthalene	91-20-3	No Data.
5. Polymer Amine Blend	NA	>10.0 %

4. First Aid Measures

Emergency and First Aid Procedures

If swallowed, do not induce vomiting. Give two glasses of water. If vomiting occurs naturally, have victim lean over to avoid aspiration. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably by mouth. If breathing is difficult, give oxygen. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Follow up with soap and water wash as soon as possible. Flush eyes immediately with plenty of water for



at least 15 minutes. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flash Pt: 141.00 F (60.6 C) Method Used: TAG Closed Cup
Explosive Limits: LEL: No data. UEL: No data.

Special Fire Fighting Procedures

Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when in a confined area.

Unusual Fire and Explosion Hazards

No data available.

Suitable Extinguishing Media

CO₂, dry chemical, foam, water fog.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Ventilate area. Remove sources of ignition. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

7. Handling and Storage

Precautions To Be Taken in Handling

Do not get in eyes, skin or clothing. Do not take internally. Wash thoroughly after handling. Avoid breathing mist or vapor. Use only with adequate ventilation. Keep out of the reach of children.

Precautions To Be Taken in Storing

Keep away from heat, sparks, open flame and fire. Store in a cool, dry, well ventilated area away from sources of ignition. Keep container closed.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. Fuel oil, no. 2	68476-30-2	No data.	TLV: 100 mg/m ³	No data.
2. Xylene (mixed isomers)	1330-20-7	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.
3. Ethylbenzene	100-41-4	PEL: 100 ppm	TLV: 100 ppm STEL: 125 ppm	No data.
4. Naphthalene	91-20-3	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	No data.
5. Polymer Amine Blend	NA	No data.	No data.	No data.

Respiratory Equipment (Specify Type)

Wear a NIOSH/MSHA approved (or equivalent) full-facepiece airline organic vapor respirator.

Eye Protection

Chemical goggles for primary protection. For severe exposure, add face shield.

Protective Gloves

Resistant to chemical penetration.

Other Protective Clothing

If skin contact or contamination is likely, chemical-resistant, protective clothing should be worn.

Ventilation

No data available.



9. Physical and Chemical Properties

Physical States:	[] Gas	[X] Liquid	[] Solid
Melting Point:	No data.		
Boiling Point:	No data.		
Autoignition Pt:	No data.		
Flash Pt:	141.00 F (60.6 C)	Method Used:	TAG Closed Cup
Explosive Limits:	LEL: No data.	UEL:	No data.
Specific Gravity (Water = 1):	.8728		
Bulk density:	No data.		
Vapor Pressure (vs. Air or mm Hg):	NP		
Vapor Density (vs. Air = 1):	- 3-4		
Evaporation Rate (vs Butyl Acetate=1):	< 1		
Solubility in Water:	Negligible		
Percent Volatile:	93.0 %		
Heat Value:	No data.		
Particle Size:	No data.		
Corrosion Rate:	No data.		
pH:	No data.		

Appearance and Odor

Colorless to pale yellow (amber) liquid, petroleum odor.

10. Stability and Reactivity

Stability:	Unstable []	Stable [X]
Conditions To Avoid - Instability		
Heat, flame.		
Incompatibility - Materials To Avoid		
Strong oxidants, strong acids, caustics, reducing agents.		
Hazardous Decomposition Or Byproducts		
CO2 (CO under incomplete combustion).		
Possibility of Hazardous Reactions:	Will occur []	Will not occur [X]
Conditions To Avoid - Hazardous Reactions		
No data available.		

11. Toxicological Information

No data available.

Carcinogenicity/Other Information

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Fuel oil, no. 2	68476-30-2	n.a.	2B	A3	n.a.
2. Xylene (mixed isomers)	1330-20-7	n.a.	n.a.	A4	n.a.
3. Ethylbenzene	100-41-4	n.a.	2B	A3	n.a.
4. Naphthalene	91-20-3	Possible	2B	A4	n.a.
5. Polymer Amine Blend	NA	n.a.	n.a.	n.a.	n.a.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No



12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method

Dispose of in a permitted hazardous waste facility in compliance with local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name ORM-D
DOT Hazard Label: None
UN/NA Number: UN1993
Packing Group: I
DOT Hazard Class: 9

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Proper Shipping Name Flammable Liquid n.o.s. (Kerosene)
UN Number: 1993
Packing Group: III
IMDG Classification: 3

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. Fuel oil, no. 2	68476-30-2	No	No	No	No
2. Xylene (mixed isomers)	1330-20-7	No	Yes 100 LB	Yes	Yes
3. Ethylbenzene	100-41-4	No	Yes 1000 LB	Yes	Yes
4. Naphthalene	91-20-3	No	Yes 100 LB	Yes	Yes
5. Polymer Amine Blend	NA	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Fuel oil, no. 2	68476-30-2	No	No	Inventory	No
2. Xylene (mixed isomers)	1330-20-7	HAP	Yes	Inventory	No
3. Ethylbenzene	100-41-4	HAP	Yes	Inventory	Yes
4. Naphthalene	91-20-3	HAP	Yes	Inventory, 8A PAIR	Yes
5. Polymer Amine Blend	NA	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. Fuel oil, no. 2	68476-30-2	No	No	No	No
2. Xylene (mixed isomers)	1330-20-7	TAC, Title 8	Yes	CMR, Part 5	Yes
3. Ethylbenzene	100-41-4	TAC, Title 8	Yes	Part 5	Yes
4. Naphthalene	91-20-3	TAC, Title 8	Yes	Part 5	Yes
5. Polymer Amine Blend	NA	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Fuel oil, no. 2	68476-30-2	No	No	Yes - No	No
2. Xylene (mixed isomers)	1330-20-7	2014	Yes	Yes - E	Yes
3. Ethylbenzene	100-41-4	0851	Yes	Yes - E	Yes
4. Naphthalene	91-20-3	1322	Yes	Yes - E	Yes
5. Polymer Amine Blend	NA	No	No	Yes - No	No

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Fuel oil, no. 2	68476-30-2	No
2. Xylene (mixed isomers)	1330-20-7	Yes



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Hazardous Components (Chemical Name)	CAS #	WI Air
3. Ethylbenzene	100-41-4	Yes
4. Naphthalene	91-20-3	Yes
5. Polymer Amine Blend	NA	No

International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Fuel oil, no. 2	68476-30-2	No	No	No
2. Xylene (mixed isomers)	1330-20-7	No	No	No
3. Ethylbenzene	100-41-4	No	No	No
4. Naphthalene	91-20-3	No	No	No
5. Polymer Amine Blend	NA	No	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.
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.