

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

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

- 1.1 Product Code:** C800
Product Name: Cold Galvanize
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- | | | | |
|--------------------------|---|----------------------|---------------|
| Company Name: | CYCLO INDUSTRIES, INC.
902 SOUTH US HIGHWAY 1
JUPITER, FL 33477 | Phone Number: | (800)843-7813 |
| Web site address: | www.cyclo.com | | |
| Information: | First Aid Emergency (Outside U.S.) | | (312)906-6194 |
- 1.4 Emergency telephone number:**
- | | | |
|---------------------------|-------------------------|---------------|
| Emergency Contact: | First Aid Emergency | (800)752-7869 |
| | CHEMTREC (703) 527-3887 | (800)424-9300 |

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:**
Flammable Liquids, Category 1
Substances, which in contact with water, emit flammable gases, Category 1
Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Skin, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Carcinogenicity, Category 1B
Target Organ Systemic Toxicity (single exposure), Category 3
Aspiration Toxicity, Category 1
Aquatic Toxicity (Acute), Category 1
Aquatic Toxicity (Chronic), Category 1
Germ Cell Mutagenicity, Category 1B
- 2.1.2 Classification according to Directive 1999/45/EC:**
- 2.2 Label Elements:**
- 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:**

**GHS Signal Word:** Danger**GHS Hazard Phrases:**

- H224: Extremely flammable liquid and vapor.
H260: In contact with water releases flammable gases which may ignite spontaneously.
H332: Harmful if inhaled.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H350: May cause cancer.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H304: May be fatal if swallowed and enters airways.

H340: May cause genetic defects.
 H410: Very toxic to aquatic life with long lasting effects.
 H280: Contents under pressure. May explode if heated.

GHS Precaution Phrases:

P233: Keep container tightly closed.
 P210: Keep away from heat/sparks/open flames/hot surfaces.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P240: Ground/bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting equipment.
 P243: Take precautionary measures against static discharge.
 P242: Use only non-sparking tools.
 P223: Do not allow contact with water.
 P231+232: Handle under inert gas, protect from moisture.
 P271: Use only outdoors or in a well-ventilated area.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P362+364: Take off contaminated clothing and wash it before reuse.
 P264: Wash hands thoroughly after handling.
 P273: Avoid release to the environment.

GHS Response Phrases:

P370+378: In case of fire, use foam, CO2, dry chemical or water fog to extinguish.
 P301+330+331: IF SWALLOWED: Rinse mouth. 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.
 P363: Wash contaminated clothing before reuse.
 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.

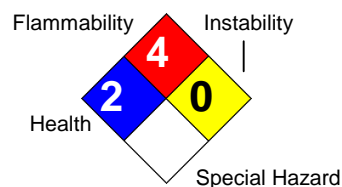
GHS Storage and Disposal Phrases:

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

P403+233: Store container tightly closed in well-ventilated place.

2.2.2 Labeling according to Directive 1999/45/EC:

Hazard Rating System:



2.3 Adverse Human Health Inhalation Health Risks & Symptoms of Exposure: Respiratory irritation, headache, Effects and Symptoms: nausea, fatigue, drowsiness, impaired coordination, central nervous system depression or heart arrythmia.

Skin & Eye Contact Health Risks & Symptoms of Exposure: Skin: Contact may dry the skin; prolonged contact may cause moderate irritation. Eyes: Liquid or vapor can cause moderate to severe irritation.

Skin Absorption Health Risks & Symptoms of Exposure: Not easily absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.

Ingestion Health Risks & Symptoms of Exposure: Not a likely route of exposure. If swallowed, do not induce vomiting. Seek immediate medical advice and/or attention.



Acute: Eye irritant, skin irritant, narcotic in high concentrations. Severe overexposure may cause damage to the blood.

Chronic: Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system and other internal organ damage.

Carcinogenicity: NTP Carcinogen: No; IARC Monographs: Yes; OSHA Regulated: No. Ethylbenzene has been shown to cause cancer in laboratory animals. The relevance of these findings to humans is uncertain. The International Agency for Research on Cancer (IARC) has classified ethylbenzene as a possible human carcinogen.

**Medical Conditions
Generally Aggravated
By Exposure:**

Acute and chronic liver and kidney disease, anemia, coronary disease or rhythm disorders of the heart.

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
7440-66-6	Zinc	43.0 %	231-175-3 030-001-00-1	N; R50/53 Pyro. Sol. 1: H250 Water-React 1: H260 Aquatic (A) 1: H400 Aquatic (C) 1: H410
78-93-3	Methyl ethyl ketone	20.0 %	201-159-0 606-002-00-3	F; Xi; R11-36-66-67 Flam. Liq. 2: H225 Eye Damage 2A: H319 TOST (SE) 3: H335 H336
1330-20-7	Xylene (mixed isomers)	8.0 %	215-535-7 601-022-00-9	Xn; R10-20/21-38 Flam. Liq. 3: H226 Acute Tox.(D) 4: H312 Skin Corr. 2: H315 Acute Tox.(I) 4: H332
108-10-1	Methyl isobutyl ketone	7.0 %	203-550-1 606-004-00-4	F; Xn; R11-20-36/37-66 Flam. Liq. 2: H225 Eye Damage 2A: H319 Acute Tox.(I) 4: H332 TOST (SE) 3: H335 H336
8052-41-3	Stoddard solvent	2.0 %	232-489-3 649-345-00-4	T; R45-65 Asp. Toxic. 1: H304 Mutagen 1B: H340 Carcinogen 1B: H350
100-41-4	Ethylbenzene	1.6 %	202-849-4 601-023-00-4	F; Xn; R11-20 Flam. Liq. 2: H225 Acute Tox.(I) 4: H332
123-86-4	Butyl acetate	1.0 %	204-658-1 607-025-00-1	-; R10-66-67 Flam. Liq. 3: H226 TOST (SE) 3: H335 H336
74-98-6	Propane	12.0 %	200-827-9 601-003-00-5	F+; R12 Comp. Gas: H280 Flam. Gas 1: H220

Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** If swallowed, do not induce vomiting. If inhaled, remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. In case of skin contact, wipe off with towel. Wash with soap and water. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call physician immediately if adverse reaction occurs.

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Foam, CO₂, dry chemical, water fog.
- 5.2 Flammable Properties and Hazards:** Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Vapor accumulation can flash or explode if ignited. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.
- Flammability Classification:** Level 3 Aerosol
- Flash Pt:** -156.00 F (-104.4 C) Method Used: Estimate
- Explosive Limits:** LEL: .7 UEL: 15
- Autoignition Pt:** No data.
- 5.3 Fire Fighting Instructions:** Water spray may be ineffective. Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. If water is used, fog nozzles preferred. Wear goggles and self-contained breathing apparatus.

Section 6. Accidental Release Measures

- 6.3 Methods and Material For Containment and Cleaning Up:** Avoid breathing vapors. Ventilate area. Remove all sources of ignition. Clean up area with absorbent material and place in closed containers for disposal.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Do not puncture or incinerate cans. Do not stick pin, nail or any other sharp object into opening on top of can. Do not spray in eyes. Do not take internally. Keep out of the reach of children.
- 7.2 Precautions To Be Taken in Storing:** Store and use in cool, dry, well-ventilated areas. Do not store above 120 degrees F.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
7440-66-6	Zinc	No data.	No data.	No data.
78-93-3	Methyl ethyl ketone	TWA: 600 mg/m ³ (200 ppm) STEL: 899 mg/m ³ (300 ppm)	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)	TWA: 600 mg/m ³ STEL: 900 mg/m ³
1330-20-7	Xylene (mixed isomers)	TWA: 220 mg/m ³ (50 ppm) STEL: 441 mg/m ³ (100 ppm)	TWA: 221 mg/m ³ (50 ppm) STEL: 442 mg/m ³ (100 ppm)	TWA: 221 mg/m ³ STEL: 442 mg/m ³
108-10-1	Methyl isobutyl ketone	TWA: 208 mg/m ³ (50 ppm) STEL: 416 mg/m ³ (100 ppm)	TWA: 83 mg/m ³ (20 ppm) STEL: 208 mg/m ³ (50 ppm)	TWA: 83 mg/m ³ STEL: 208 mg/m ³
8052-41-3	Stoddard solvent	No data.	No data.	No data.
100-41-4	Ethylbenzene	TWA: 441 mg/m ³ (100 ppm) STEL: 552 mg/m ³ (125 ppm)	TWA: 88.4 mg/m ³ (20 ppm) STEL: 442 mg/m ³ (100 ppm)	TWA: 442 mg/m ³ STEL: 884 mg/m ³
123-86-4	Butyl acetate	TWA: 724 mg/m ³ (150 ppm) STEL: 966 mg/m ³ (200 ppm)	TWA: 710 mg/m ³ (150 ppm) STEL: 940 mg/m ³ (200 ppm)	No data.



SAFETY DATA SHEET

Cold Galvanize

Revision: 05/05/2014
Supersedes Revision: 06/17/2013

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
74-98-6	Propane	No data.	No data.	No data.
7440-66-6	Zinc	No data.	No data.	No data.
78-93-3	Methyl ethyl ketone	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	No data.
1330-20-7	Xylene (mixed isomers)	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.
108-10-1	Methyl isobutyl ketone	PEL: 100 ppm	TLV: 50 ppm STEL: 75 ppm	No data.
8052-41-3	Stoddard solvent	PEL: 500 ppm	TLV: 100 ppm	No data.
100-41-4	Ethylbenzene	PEL: 100 ppm	TLV: 100 ppm STEL: 125 ppm	No data.
123-86-4	Butyl acetate	PEL: 150 ppm	TLV: 150 ppm STEL: 200 ppm	No data.
74-98-6	Propane	PEL: 1000 ppm	TLV: (2500 ppm)	No data.

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Sufficient to prevent inhalation of solvent vapors. General dilution and/or local exhaust ventilation in volume or pattern to keep PEL/TLV of most hazardous ingredient below acceptable limit and LEL below stated limit.

8.2.2 Personal protection equipment:

Eye Protection: Use of safety glasses with splash guards or full face shield is recommended.

Protective Gloves: Use of chemical resistant, impervious gloves is recommended.

Other Protective Clothing: Use of solvent resistant aprons or other clothing is recommended.

Respiratory Equipment (Specify Type): None under normal use. Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

Work/Hygienic/Maintenance Practices: Small pressurized containers of flammable products may be stored in areas suitable for ordinary combustibles with respect to construction, drainage, control of ignition sources, and ventilation except that they should not be stored in basements.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Aerosol product.

Melting Point: No data.

Boiling Point: -44.00 F (-42.2 C) - -310.00 F (-190.0 C)

Flash Pt: -156.00 F (-104.4 C) Method Used: Estimate

Evaporation Rate: < Ether

Explosive Limits: LEL: .7 UEL: 15

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): > Air



Specific Gravity (Water = 1): 1.24
Solubility in Water: Slight
Autoignition Pt: No data.

9.2 Other Information

Percent Volatile: NP

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:** Application to hot surfaces. Storage above 120 degrees F. Exposure to open flame.
- 10.5 Incompatibility - Materials To Avoid:** Strong oxidizing agents.
- 10.6 Hazardous Decomposition Or Byproducts:** May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.

Section 11. Toxicological Information

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

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7440-66-6	Zinc	n.a.	n.a.	n.a.	n.a.
78-93-3	Methyl ethyl ketone	n.a.	n.a.	n.a.	n.a.
1330-20-7	Xylene (mixed isomers)	n.a.	3	A4	n.a.
108-10-1	Methyl isobutyl ketone	n.a.	2B	n.a.	n.a.
8052-41-3	Stoddard solvent	n.a.	n.a.	n.a.	n.a.
100-41-4	Ethylbenzene	n.a.	2B	A3	n.a.
123-86-4	Butyl acetate	n.a.	n.a.	n.a.	n.a.
74-98-6	Propane	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

Section 13. Disposal Considerations

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

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Consumer Commodity
DOT Hazard Class: ORM-D ORM-D
UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Aerosols, Ltd. Qty.
UN Number: 1950
Hazard Class: N.A. **ADR Classification:** 2.1

14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Aerosols, Ltd. Qty.
UN Number: 1950 **Packing Group:**
Hazard Class: N.A. **IMDG Classification:** 2.1

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Aerosols, flammable, 2.1, Ltd Qty
UN Number: 1950
Hazard Class: N.A. **IATA Classification:** 2.1

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)
7440-66-6	Zinc	No	Yes 1000 LB	Yes-Cat. N982
78-93-3	Methyl ethyl ketone	No	Yes 5000 LB	No
1330-20-7	Xylene (mixed isomers)	No	Yes 100 LB	Yes
108-10-1	Methyl isobutyl ketone	No	Yes 5000 LB	Yes
8052-41-3	Stoddard solvent	No	No	No
100-41-4	Ethylbenzene	No	Yes 1000 LB	Yes
123-86-4	Butyl acetate	No	Yes 5000 LB	No
74-98-6	Propane	No	No	No

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

7440-66-6	Zinc	CAA HAP,ODC: No; CWA NPDES: Yes; TSCA: Inventory, 6A, 12(b); CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: CMR, Part 5; NC TAP: No; NJ EHS: Yes - 2021; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: No
78-93-3	Methyl ethyl ketone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: 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 - 1258; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
1330-20-7	Xylene (mixed isomers)	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: CMR, Part 5; NC TAP: Yes; NJ EHS: Yes - 2014; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
108-10-1	Methyl isobutyl ketone	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Inventory, 4 Test; CA PROP.65: Yes; CA TAC, Title 8: TAC, Title 8; MA



SAFETY DATA SHEET

Cold Galvanize

Revision: 05/05/2014

Supersedes Revision: 06/17/2013

Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 1268; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes

8052-41-3 Stoddard solvent

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1736; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes

100-41-4 Ethylbenzene

CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Inventory, 4 Test; CA PROP.65: Yes; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 0851; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes

123-86-4 Butyl acetate

CAA HAP,ODC: No; CWA NPDES: Yes; TSCA: Inventory, 4 Test; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1329; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: Yes

74-98-6 Propane

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1594; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No

CAS # Hazardous Components (Chemical Name)**International Regulatory Lists**

7440-66-6

Zinc

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

78-93-3

Methyl ethyl ketone

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

1330-20-7

Xylene (mixed isomers)

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

108-10-1

Methyl isobutyl ketone

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes - 117-01

8052-41-3

Stoddard solvent

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

100-41-4

Ethylbenzene

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes - 116-01

123-86-4

Butyl acetate

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

74-98-6

Propane

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

European Community Hazard Symbol codes:**European Community Risk and Safety Phrases:**

No data available.

Section 16. Other Information

Revision Date: 05/05/2014**Additional Information About** No data available.**This Product:****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,



SAFETY DATA SHEET

Cold Galvanize

Revision: 05/05/2014

Supersedes Revision: 06/17/2013

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.