

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:** C521
Product Name: PermaStop
- 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]:**
- Acute Toxicity: Inhalation, Category 3
 - Acute Toxicity: Oral, Category 3
 - Acute Toxicity: Skin, Category 3
 - Skin Corrosion/Irritation, Category 1B
 - Serious Eye Damage/Eye Irritation, Category 1
 - Skin Sensitization, Category 1
 - Germ Cell Mutagenicity, Category 2
 - Carcinogenicity, Category 2
 - Target Organ Systemic Toxicity (single exposure), Category 3
 - Aquatic Toxicity (Chronic), Category 4
 - Target Organ Systemic Toxicity (repeated exposure), Category 1
- 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:**

- H331: Toxic if inhaled.
- H301: Toxic if swallowed.
- H311: Toxic in contact with skin.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H341: Suspected of causing genetic defects.
- H351: Suspected of causing cancer .
- H335: May cause respiratory irritation.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H413: May cause long lasting harmful effects to aquatic life.

GHS Precaution Phrases:

- P271: Use only outdoors or in a well-ventilated area.

- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P361+364: Take off immediately all contaminated clothing and wash it before reuse.
- P362+364: Take off contaminated clothing and wash it before reuse.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P281: Use personal protective equipment as required.

GHS Response Phrases:

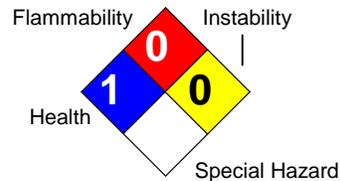
- P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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:

- P403+233: Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

2.2.2 Labeling according to Directive 1999/45/EC:

Hazard Rating System:



2.3 Adverse Human Health Effects and Symptoms: This product contains a small amount of cellulose. Exposure to high concentrations of dust may result in upper respiratory tract (nose and throat) irritation. An allergic reaction may occur in some persons due to inhalation of or contact with these products.

Not an acute hazard. May cause eye or skin irritation in high concentrations. This product contains a small amount of quartz that may cause delayed respiratory disease if inhaled over a long period of time: avoid breathing dust. This product contains a small amount of Kathon CG which contains a registered pesticide. EPA Reg. No. 1448-348.

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
7732-18-5	Water	60.0 -70.0 %	231-791-2 NA	No phrases apply. No data available.
1344-09-8	Sodium silicate	25.0 -35.0 %	215-687-4 NA	No phrases apply. Acute Tox.(O) 4: H302 Skin Corr. 2: H315 Eye Damage 1: H318
9004-32-4	Cellulose, Carboxymethyl ether, sodium salt	0.0 -1.0 %	NA NA	No phrases apply. No data available.
6440-58-0	2,4-Imidazolidinedione,	0.0 -1.0 %	229-222-8	R43



1,3-Bis(hydroxymethyl)-5,5-dimethyl-

NA

Acute Tox.(O) 3: H301
Acute Tox.(D) 3: H311
Skin Corr. 1B: H314
Skin Sens. 1: H317
Acute Tox.(I) 3: H331
TOST (SE) 3: H335 H336
Mutagen 2: H341
Carcinogen 2: H351
Aquatic (C) 3: H412

7440-50-8 Copper

0.0 -1.0 %

231-159-6
NA

No phrases apply.
TOST (SE) 3: H335 H336
TOST (RE) 1: H372
Aquatic (C) 4: H413

Section 4. First Aid Measures

4.1 Description of First Aid If inhaled, remove to fresh air. If in eyes, rinse cautiously with water for several minutes.
Measures: 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: No data available.

5.2 Flammable Properties and Hazards: No data available.

Flash Pt: NP

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

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: No data available.

Section 6. Accidental Release Measures

6.3 Methods and Material For Containment and Cleaning Up: Use personal protective equipment. Avoid dust formation.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Take off immediately all contaminated clothing and wash it before reuse. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Keep out of the reach of children.

7.2 Precautions To Be Taken in Storing: Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
7732-18-5	Water	No data.	No data.	No data.
1344-09-8	Sodium silicate	No data.	No data.	No data.



SAFETY DATA SHEET

PermaStop

9004-32-4	Cellulose, Carboxymethyl ether, sodium salt	No data.	No data.	No data.
6440-58-0	2,4-Imidazolidinedione, 1,3-Bis(hydroxymethyl)-5,5-dimethyl-	No data.	No data.	No data.
7440-50-8	Copper	TWA: 0.2 mg/m3 (Fume) TWA: 1.0 mg/m3 (Dust)	TWA: 0.2 mg/m3 (Fume) TWA: 1 mg/m3 STEL: 2 mg/m3 (Metal)	No data.

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7732-18-5	Water	No data.	No data.	No data.
1344-09-8	Sodium silicate	No data.	No data.	No data.
9004-32-4	Cellulose, Carboxymethyl ether, sodium salt	No data.	No data.	No data.
6440-58-0	2,4-Imidazolidinedione, 1,3-Bis(hydroxymethyl)-5,5-dimethyl-	No data.	No data.	No data.
7440-50-8	Copper	PEL: 0.1 (fume)/ 1.0	TLV: 0.2 mg/m3 (fume) 1 mg/m3	No data.

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Provide general dilute ventilation in the presence of dust.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Gloves

Other Protective Clothing: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron or full body suit will depend on the task. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

Respiratory Equipment (Specify Type): NIOSH approved dust respirator in the presence of dust formation.

Work/Hygienic/Maintenance Practices: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

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

Appearance and Odor: Semi-viscous; copper liquid.

pH: 10.5 - 11.5

Melting Point: No data.

Boiling Point: No data.

Flash Pt: NP

Evaporation Rate: > 1 (BuAC=1)

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

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

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



Specific Gravity (Water = 1): 1.08
Solubility in Water: Infinite
Autoignition Pt: No data.

9.2 Other Information

Percent Volatile: 0.0 % 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:** No data available.
- 10.5 Incompatibility - Materials To Avoid:** No data available.
- 10.6 Hazardous Decomposition Or Byproducts:** No data available.

Section 11. Toxicological Information

- 11.1 Information on Toxicological Effects:** The International Agency for Research on Cancer has determined that crystalline silica (present in a subcomponent of this product in dust form) inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans. The National Toxicology Programs classifies respirable crystalline silica (present in a subcomponent of this product in dust form) as a known human carcinogen.
- CAS# 7732-18-5:
Other Studies:, TDLo, Oral, Species: Rabbit, 3502. GM/KG, 2 W.
Results:
Behavioral: Convulsions or effect on seizure threshold.
Behavioral: Muscle weakness.
Related to Chronic Data - death.
- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926
- Acute toxicity, TDLo, Oral, Infant, 333.0 GM/KG.
Results:
Behavioral: Convulsions or effect on seizure threshold.
Gastrointestinal:Hypermotility, diarrhea.
Nutritional and Gross Metabolic:Changes in:Body temperature increase.
- Archives of Disease in Childhood., British Medical Journal, Box 560B, Kennebunkport, ME 04046, Vol/p/yr: 54,551, 1979
- Acute toxicity, TDLo, Oral, Human, 42.86 GM/KG.
Results:
Behavioral: Tremor.
Behavioral: Muscle contraction or spasticity.
- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926
- Acute toxicity, LDLO, Rectal, Species: Woman, 180.0 GM/KG, 28 H.

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Mydriasis (pupillary dilation).

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal: Nausea or vomiting.

- Journal of the American Medical Association, American Medical Association, 535 N. Dearborn St., Chicago, IL 60610, Vol/p/yr: 104,1569, 1935

Acute toxicity, LD50, Oral, Rat, 90.00 ML/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

- Food Research., For publisher information, see JFDSAZ, Champaign, IL, Vol/p/yr: 21,348, 1956

Acute toxicity, LD50, Intraperitoneal, Mouse, 190.0 GM/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

Kidney, Ureter, Bladder: Changes in bladder weight.

- National Technical Information Service, Vol/p/yr: AD628-313,

Acute toxicity, LD50, Intravenous, Mouse, 25.00 GM/KG.

Results:

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Related to Chronic Data - death.

- Microvascular Research., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 8,320, 1974

Acute toxicity, LDLO, Oral, Dog, 629.0 GM/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

Kidney, Ureter, Bladder: Changes in bladder weight.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Oral, Species: Cat, 320.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Oral, Species: Rabbit, 368.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Intravenous, Species: Rabbit, 13.00 GM/KG.

Results:

Blood: Other hemolysis with or without anemia.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Rectal, Species: Rabbit, 450.0 GM/KG.



Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Mydriasis (pupillary dilation).

Behavioral: Muscle contraction or spasticity.

Gastrointestinal: Changes in structure or function of salivary glands.

- Journal of the American Medical Association, American Medical Association, 535 N. Dearborn St., Chicago, IL 60610, Vol/p/yr: 104,1569, 1935

Acute toxicity, LDLO, Oral, Species: Guinea pig, 429.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7732-18-5	Water	n.a.	n.a.	n.a.	n.a.
1344-09-8	Sodium silicate	n.a.	n.a.	n.a.	n.a.
9004-32-4	Cellulose, Carboxymethyl ether, sodium salt	n.a.	n.a.	n.a.	n.a.
6440-58-0	2,4-Imidazolidinedione, 1,3-Bis(hydroxymethyl)-5,5-dimethyl-	n.a.	n.a.	n.a.	n.a.
7440-50-8	Copper	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: Not-Restricted

DOT Hazard Class:

UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not-Restricted

UN Number:

Hazard Class:

14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not-Restricted

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not-Restricted

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)
7732-18-5	Water	No	No	No
1344-09-8	Sodium silicate	No	No	No
9004-32-4	Cellulose, Carboxymethyl ether, sodium salt	No	No	No
6440-58-0	2,4-Imidazolidinedione, 1,3-Bis(hydroxymethyl)-5,5-dimethyl-	No	No	No
7440-50-8	Copper	No	Yes 5000 LB	Yes-Cat. N100

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

7732-18-5	Water	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; 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
1344-09-8	Sodium silicate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; 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
9004-32-4	Cellulose, Carboxymethyl ether, sodium salt	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; 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
6440-58-0	2,4-Imidazolidinedione, 1,3-Bis(hydroxymethyl)-5,5-dimethyl-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; 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
7440-50-8	Copper	CAA HAP,ODC: No; 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: No; NJ EHS: Yes - 0528; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: Yes

CAS # Hazardous Components (Chemical Name)

International Regulatory Lists

7732-18-5	Water	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
1344-09-8	Sodium silicate	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
9004-32-4	Cellulose, Carboxymethyl ether, sodium salt	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
6440-58-0	2,4-Imidazolidinedione, 1,3-Bis(hydroxymethyl)-5,5-dimethyl-	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
7440-50-8	Copper	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: 08/11/2014

Additional Information About This Product: 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, 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.