

1. Product and Company Identification

Product Code: HOSEHP4G
Product Name: Environ HP
Company Name: Hruby Orbital Systems
3275 Corporate View
Vista, CA 92081
Phone Number: (760)936-8054
Emergency Contact: Infotrac
Domestic (800)535-5053
Internat'l (352)323-3500
Recommended Use: Carpet Cleaner
Intended Use: For sale to, use and storage by service persons only.

2. Hazards Identification

Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A



GHS Signal Word: **Warning**
GHS Hazard Phrases: H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H319 - Can cause serious eye irritation.
GHS Precaution Phrases: P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P362+364 - Take off contaminated clothing and wash it before reuse.
P102 - Keep out of reach of children.
GHS Response Phrases: P301+310 - If swallowed: Immediately call a Poison Center or doctor. P330 - Rinse mouth.
P302+352 - If on skin (or in hair): Wash with plenty of soap and water.
P305+351+338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 - Get medical attention/advice if you feel unwell.
GHS Storage and Disposal Phrases: P411+235 - Store in cool dry place at room temperature away from direct sunlight. P501 - Dispose of contents and container according to the local, city, state and federal regulations.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Skin Contact: May cause skin irritation.
Eye Contact: Causes severe eye irritation.
Ingestion: Harmful if swallowed.
Skin Absorption: May be harmful if absorbed through the skin.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
38714-47-5	Zinc(2+), tetraammine-, (T-4)-, carbonate (1:1)	2.0 -5.0 %	
7722-84-1	Hydrogen peroxide	2.0 -3.0 %	
68515-73-1	D-Glucopyranose, oligomeric, decyl octyl glycosides	2.0 -3.0 %	
110615-47-9	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	2.0 -3.0 %	
144538-83-0	Aspartic acid, N-(1,2-dicarboxyethyl)-, tetrasodium salt	0.5 -1.0 %	
77-92-9	Citric acid	0.5 -1.0 %	
55965-84-9	mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3-	0.1 -0.2 %	
7732-18-5	Water	83.8 -90.9 %	

4. First Aid Measures

Emergency and First Aid

Procedures:

- In Case of Inhalation:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In Case of Skin Contact:** In case of contact, immediately wash skin with soap and copious amounts of water.
- In Case of Eye Contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
- In Case of Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- Signs and Symptoms Of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

5. Fire Fighting Measures

- Flash Pt:** NE Method Used: Estimate
- Explosive Limits:** LEL: N/A UEL: N/A
- Autoignition Pt:** NE
- Suitable Extinguishing Media:** Suitable: Water spray.
- Fire Fighting Instructions:** Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s):
- Flammable Properties and Hazards:** No data available.
- Hazardous Combustion Products:** No data available.

6. Accidental Release Measures

- Steps To Be Taken In Case Material Is Released Or Spilled:** PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Evacuate area. PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.
Methods for cleaning up:
Absorb on sand or vermiculite and place in closed containers for disposal.

7. Handling and Storage

Precautions To Be Taken in Handling: User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing.

Precautions To Be Taken in Storing: Suitable: Keep tightly closed.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
38714-47-5	Zinc(2+), tetraammine-, (T-4)-, carbonate (1:1)	No data.	No data.	No data.
7722-84-1	Hydrogen peroxide	PEL: 1 ppm	TLV: 1 ppm	No data.
68515-73-1	D-Glucopyranose, oligomeric, decyl octyl glycosides	No data.	No data.	No data.
110615-47-9	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	No data.	No data.	No data.
144538-83-0	Aspartic acid, N-(1,2-dicarboxyethyl)-, tetrasodium salt	No data.	No data.	No data.
77-92-9	Citric acid	No data.	No data.	No data.
55965-84-9	mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-	No data.	No data.	No data.
7732-18-5	Water	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Eye Protection: Chemical safety goggles.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: No special requirements under normal use conditions.

Engineering Controls (Ventilation etc.): Safety shower and eye bath. Mechanical exhaust required.

Work/Hygienic/Maintenance Practices: Wash thoroughly after handling.

EXPOSURE LIMITS, RTECS.
Country Source Type Value.
USA MSHA Standard-air TWA 1 PPM (1.4 MG/M3)

9. Physical and Chemical Properties

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

Appearance and Odor: Opaque white liquid with lemon fragrance.

pH: ~ 5.00 - 6.50

Melting Point: NE

Boiling Point: >= 212.00 F

Flash Pt: NE Method Used: Estimate

Evaporation Rate: NE

Flammability (solid, gas): No data available.

Explosive Limits: LEL: N/A UEL: N/A

Vapor Pressure (vs. Air or mm Hg): NE

Vapor Density (vs. Air = 1): NE

Specific Gravity (Water = 1): ~ 1.040

Density: ~ 8.67 LB/GA

Bulk density: NP

Solubility in Water: 100%

Saturated Vapor Concentration: NE

Octanol/Water Partition Coefficient: No data.

VOC / Volume: 0.0000 G/L

Autoignition Pt: NE

Decomposition Temperature: NE

Viscosity: NP

Particle Size: NP

Heat Value: NP

Corrosion Rate: NP

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Extremes of temperature and direct sunlight. Excess heat.

Incompatibility - Materials To Avoid: Organic materials, excessive heat, soft metals and reducing agents. Aluminum and Soft Metals.

Hazardous Decomposition or Byproducts: CO, CO2, Hydrogen.

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

Conditions To Avoid - Hazardous Reactions: None.

11. Toxicological Information

Toxicological Information: CAS# 7722-84-1: Acute toxicity, LD50, Oral, Rat, 1518. MG/KG. Result: Behavioral: Somnolence (general depressed activity). ; Toho Igakkai Zasshi. Journal of Medical Society of Toho University., Toho Daigaku Igakkai, 21-16, Omori-nishi, 5-chome, Ota-ku, Tokyo 143 Japan, Vol/p/yr: 23,531, 1976

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

12. Ecological Information

General Ecological Information: Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes in water and oxygen.
CAS# 7722-84-1: Not reported., Dinoflagellate (Polykrikos schwartzii), 10000. - 1000000. UG/L, Reproduction, Water temperature: 22.00 C C. Result: Morphological changes. ; Hydrogen Peroxide as an Extermination Agent Against Cysts of Red Tide and Toxic Dinoflagellates, Ichikawa, S., Y. Wakao, and Y. Fukuyo, 1993

13. Disposal Considerations

Waste Disposal Method: APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

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)
38714-47-5	Zinc(2+), tetraammine-, (T-4)-, carbonate (1:1)	No	No	Yes-Cat. N982
7722-84-1	Hydrogen peroxide	Yes 1000 LB	No	No
68515-73-1	D-Glucopyranose, oligomeric, decyl octyl glycosides	No	No	No
110615-47-9	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	No	No	No
144538-83-0	Aspartic acid, N-(1,2-dicarboxyethyl)-, tetrasodium salt	No	No	No
77-92-9	Citric acid	No	No	No
55965-84-9	mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3-	No	No	No
7732-18-5	Water	No	No	No

This material meets the EPA Yes No Acute (immediate) Health Hazard

'Hazard Categories' defined Yes No Chronic (delayed) Health Hazard

SAFETY DATA SHEET

Environ HP

for SARA Title III Sections Yes No Fire Hazard
 311/312 as indicated: Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
38714-47-5	Zinc(2+), tetraammine-, (T-4)-, carbonate (1:1)	CA PROP.65: No; CA TAC, Title 8: Yes - Cat., Yes - Cat.
7722-84-1	Hydrogen peroxide	CA PROP.65: No; CA TAC, Title 8: Title 8
68515-73-1	D-Glucopyranose, oligomeric, decyl octyl glycosides	CA PROP.65: No; CA TAC, Title 8: No
110615-47-9	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	CA PROP.65: No; CA TAC, Title 8: No
144538-83-0	Aspartic acid, N-(1,2-dicarboxyethyl)-, tetrasodium salt	CA PROP.65: No; CA TAC, Title 8: No
77-92-9	Citric acid	CA PROP.65: No; CA TAC, Title 8: No
55965-84-9	mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3-	CA PROP.65: No; CA TAC, Title 8: No
7732-18-5	Water	CA PROP.65: No; CA TAC, Title 8: No

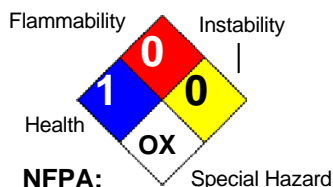
16. Other Information

Revision Date: 06/29/2020

Hazard Rating System:

HEALTH	1
FLAMMABILITY	0
PHYSICAL	0
PPE	B

HMIS:



NFPA:

Additional Information About This Product: No data available.

This Product: