

1. Product and Company Identification

Product Code: HOSEHP4G
Product Name: Environ HP
Company Name: Hruby Oribital 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 311/312 as indicated: Yes No Fire Hazard
 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

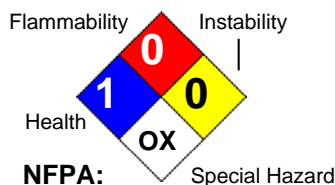
16. Other Information

Revision Date: 06/29/2020

Hazard Rating System:

HEALTH		1
FLAMMABILITY		0
PHYSICAL		0
PPE		B

HMIS:



Additional Information About This Product: No data available.

This Product: