

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name CHARLIE
CAS# Mixture
Product Use Acidic spot remover for carpet/fabrics
Manufacturer Powr-Flite, A Division of Tacony Corporation
3101 Wichita Court
Fort Worth, TX 76140-1710
Emergency Telephone Number 1-800-424-9300
Company Contact 1-800-880-2913 or website www.powrflite.com

HMIS LEGEND

Severe	4	Health	2
Serious	3	Flammability	0
Moderate	2	Reactivity	0
Slight	1	Personal Protection	B
Minimal	0		

2. Hazards Identification

Emergency Overview **Warning: Eye and skin irritant, contains a potential carcinogen.**

Potential short term effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Causes eye irritation.

Skin Contact with skin may cause irritation.

Inhalation May cause respiratory tract irritation, and headache/dizziness.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes, Skin, Mucous membrane.

Chronic effects Prolonged exposure can cause drying, defatting, or dermatitis.

Signs and symptoms Symptoms may include irritation, redness, scratching of the cornea and tearing. Symptoms of over exposure may be headache, dizziness, tiredness, nausea and vomiting

3. Hazardous Ingredients

The criteria for listing components in this section are: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. This is not a composition disclosure.

Hazardous Components	CAS#	%(optional)
1-Hydroxyethylidene-1, 1-diphosphonic acid	2809-21-4	< 5%
Gluconic acid	526-95-4	< 5%
Alkoxylated linear alcohols	37311-02-7, 52232-09-4, 37251-67-5	< 10%
Triethanol amine	102-71-6	< 6%

4. First Aid Measures

First Aid Procedures

Eye Contact Flush with cool running water for 15 minutes. Get medical attention immediately.

Skin Contact Flush with cool water, Wash with soap and water, If irritation persists, get medical Attention.

Inhalation If symptoms develop, move to fresh air. If symptoms persist, get medical attention

Ingestion Rinse mouth with water. Drink one or two glasses of water. **Do not induce vomiting.** Obtain medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician
General advice

Symptoms may be delayed.
Seek medical attention if feeling unwell. Show the MSDS to the physician in attendance.

5. Fire-fighting Measures

Flammable properties	Not flammable
Extinguishing media	Treat for surrounding material.
Protection of firefighters	Firefighters should wear protective clothing including self contained breathing apparatus
Hazardous combustion products	May include and not limited to oxides of carbon and nitrogen.
Unusual Fire, Explosion hazards	None known.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective Clothing. Stay upwind of spills or leaks.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers.
Methods for cleaning up	Before attempting clean up refer to hazard data given above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or water ways. Contact emergency personnel or supplier for advice. Never return spill to original container for reuse

7. Handling and Storage

Handling	Use good industrial hygiene practices when handling this material
Storage	Keep out of reach of children. Keep from freezing, store in a cool dry place away from incompatible materials.

8. Exposure Controls and Personal Protection

Exposure limits		
Ingredients	OSHA PEL	ACGIH TLV
1-hydroxyethylidene-1, 1-diphosphonic acid	Not established	Not established
Gluconic acid	Not established	Not established
Alkoxylated linear alcohols	Not established	Not established
Triethanol amine	Not established	TWA: 5mg/m ³
Citric acid	Not established	TWA: 10mg/m ³
Engineering controls	General ventilation normally required.	
Personal protective equipment		
Eye/Face protection	Wear chemical goggles, safety glasses with side shields.	
Hand protection	Rubber or nitrile gloves.	
Skin and body	As required by employer code.	
Respiratory protection	Use a NIOSH approved respirator when exposure guidelines are exceeded.	
General hygiene considerations	Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Wash hands well before breaks and immediately after handling the product.	

9. Physical and Chemical Properties

Appearance/form	Clear liquid
Color	Light straw to colorless
Odor	Fresh air
pH	3.0-3.4 (100%)
Boiling point	> 212° F.

Specific gravity	1.08-1.11
Evaporation rate	Not available
Vapor pressure	Not available
Vapor density	Not available
Solubility in water	Complete
Flash point	None
VOC	< 1%
% Volatile	Approx. 75%

10. Stability and Reactivity

Chemical Stability	Stable under normal storage conditions.
Conditions to avoid	Reacts violently with alkaline materials. Do not mix with other chemicals.
Incompatible materials	Caustics, reducing agents, oxidizers and metals.
Hazardous decomposition products	May include but not limited to oxides of carbon, oxides of nitrogen, oxides of phosphorous.
Hazardous polymerization	Will not occur

11. Toxicological Information

Ingredients	LC50
1-Hydroxyethylidene-1, 1-diphosphonic acid	Not available
Gluconic acid	Not available
Alkoxylated linear alcohols	Not available
Triethanol amine	Not available
Citric acid	not available
Ingredients	LD50
1-Hydroxyethylidene-1, 1-diphosphonic acid	1800 mg/kg rat
Gluconic acid	2000 mg/kg rat
Alkoxylated linear alcohols	3000 mg/kg rat
Triethanol amine	4190 mg/kg rat, 5200 mg/kg mouse
Citric acid	5040 mg/kg mouse, 3000 mg/kg rat
Effects of acute exposure	
Eye	May cause irritation
Skin	May cause irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea, or vomiting.
Sensitization	Non hazardous.
Chronic effects	Non hazardous.
Carcinogenicity	
IARC Group 3 (Not classifiable)	Triethanol amine 102-71-6 Monograph 77 [2000]
Mutagenicity	Non hazardous.
Reproductive effects	Non hazardous.
Teratogenicity	Non hazardous.

12. Ecological Information

Eco-toxicity	Components of this product have been identified as having potential environmental concerns. The low pH of the product would be expected to produce significant eco-toxicity upon exposure to aquatic organisms.
Eco-toxicity-Fresh water algae:	
Triethanol amine	72 Hr EC50 Scenedesmus suspicatus: 216 mg/L
Eco-toxicity-Freshwater Fish Species data:	
1-Hydroxyethylidene -1, 1-diphosphonic acid	96 Hr LC50 Lepomis macrochirus: 563 mg/L
Citric acid	96 Hr LC 50 Lepomis macrochirus: 1516 mg/l 96 Hr LC 50 Leuciscus idus: 440 mg/L

Eco-toxicity-Microtox data:

Citric acid 15 min EC50 Photobacterium phosphoreum: 14 mg/L
 Triethanol amine 30 min EC50 psuedomonas putida: > 10000 mg/L

Eco-toxicity-Water flea data:

1-Hydroxyethylidene -1, 1-diphosphonic acid 48 Hr EC50 water flea: 527 mg/L
 Triethanol amine 24 Hr EC50 Daphnia magna: 120 mg/L
 Citric acid 72 Hr EC50 Daphnia magna: 120 mg/L

Environmental effects Not Available
Aquatic toxicity Not Available
Persistence and Degradability Not Available
Bioaccumulation/accumulation Not Available
Partition coefficient Not Available
Mobility in environmental media Not Available
Chemical fate information Not Available
Other adverse effects Not Available

13. Disposal Considerations

Waste codes Not Available
Disposal instructions Dispose in accordance with local, state, and federal regulations
Wastes from residues/unused Product Containerize. Rinse area with water. Keep out of storm sewer/waterways.
Contaminated packaging Dispose in accordance with all applicable regulations.

14. Transport Information

Basic shipping requirements: Not DOT regulated
Proper shipping name
Hazard class
UN number
Packing group
Special provisions
Packaging exceptions

15. Regulatory Information

U.S federal regulations This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the MSDS contains all of the information required by OSHA.

HMIS classification Irritant

Inventory Status

Countries	Inventory Name	On Inventory (Yes/No)*
U.S.	Chemical Inventory List	Yes
Canada	Domestic substances list	Yes

- A "Yes" indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

16. Other Information

Disclaimer

To the best of our knowledge, the information included herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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April 4, 2014

Supersedes date

March 1, 2011

Reason for update

Conform to OSHA update requirements

Expiration date

April 4, 2017