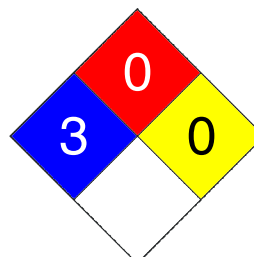


1. Product and Company Identification

Product Name WhirlOut
CAS # Mixture
Product use Cleaner
Manufacturer Iron Out dba Summit Brands
 7201 Engle Road
 Fort Wayne, IN 46804-5875 US
 Phone: 260-483-2519
 Emergency Phone: 1-800-424-9300 (CHEMTREC)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 3
Flammability	0
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview DANGER
CAUSES EYE BURNS. CAUSES SKIN BURNS.

Potential short term health effects

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

Eyes May cause chemical burns. May cause blindness.

Skin May cause chemical burns. Harmful contact may not cause immediate pain.

Inhalation Harmful if inhaled. Dust may cause respiratory tract irritation or chemical burns.

Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs Eyes. Skin. Respiratory system.

Chronic effects Prolonged or repeated exposure may cause chemical burns.

Signs and symptoms The product causes burns of eyes, skin and mucous membranes.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Sodium carbonate	497-19-8	40 - 70
Sodium metasilicate	6834-92-0	15 - 40
Sodium tripolyphosphate	7758-29-4	15 - 40
Tetrasodium pyrophosphate	7722-88-5	0.5 - 1.5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Brush away excess of dry material. Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation develops or persists.

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

Ingestion	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Not flammable by WHMIS/OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen chloride. Oxides of phosphorus.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas.
Methods for containment	Stop the flow of material, if this is without risk.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Wash thoroughly after handling.
Storage	Keep out of the reach of children. Store in a closed container away from incompatible materials. Keep in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
Sodium carbonate	ACGIH-TLV Not established OSHA-PEL Not established
Sodium metasilicate	ACGIH-TLV TWA: 10 mg/m ³ OSHA-PEL Not established
Sodium tripolyphosphate	ACGIH-TLV Not established OSHA-PEL Not established
Tetrasodium pyrophosphate	ACGIH-TLV TWA: 5 mg/m ³ OSHA-PEL TWA: 5 mg/m ³

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye / face protection

Chemical splash goggles.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection

Not normally required if good ventilation is maintained. Avoid inhalation of dust. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations

Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Powder
Color	White with gray specs
Form	Powder
Odor	Not available
Odor threshold	Not available
Physical state	Solid
pH	11.8 (1% @ 20°C (Typical))
Melting point	Not available
Freezing point	Not available
Boiling point	Not applicable
Pour point	Not available
Evaporation rate	Not applicable
Flash point	None
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable

Specific gravity	Not available
Octanol/water coefficient	Not available
Viscosity	Not applicable
Bulk density	0.84 - 0.94 G/mL (Typical)
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	Reacts vigorously with acids. This product may react with oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with anything but water.
Incompatible materials	Acids. Caustics. Reducing agents. Oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen chloride. Oxides of phosphorus.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Sodium carbonate	400 mg/m3 guinea pig
Sodium metasilicate	Not available
Sodium tripolyphosphate	Not available
Tetrasodium pyrophosphate	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Sodium carbonate	4090 mg/kg rat
Sodium metasilicate	1153 mg/kg rat
Sodium tripolyphosphate	3100 mg/kg rat
Tetrasodium pyrophosphate	4000 mg/kg rat

Effects of acute exposure

Eye	May cause chemical burns. May cause blindness.
Skin	May cause chemical burns. Harmful contact may not cause immediate pain.
Inhalation	Harmful if inhaled. Dust may cause respiratory tract irritation or chemical burns.
Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity	Not classified or listed by IARC, NTP, OSHA and ACGIH.
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae - Acute Toxicity Data		
Sodium carbonate	497-19-8	120 Hr EC50 Nitzschia: 242 mg/L
Ecotoxicity - Freshwater Fish - Acute Toxicity Data		
Sodium carbonate	497-19-8	96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 96 Hr LC50 Pimephales promelas: 310 - 1220 mg/L [static]
Sodium metasilicate	6834-92-0	96 Hr LC50 Brachydanio rerio: 210 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 210 mg/L
Ecotoxicity - Water Flea - Acute Toxicity Data		
Sodium carbonate	497-19-8	48 Hr EC50 Daphnia magna: 265 mg/L
Sodium metasilicate	6834-92-0	96 Hr EC50 Daphnia magna: 216 mg/L
Persistence / degradability	Not available	
Bioaccumulation / accumulation	Not available	
Mobility in environmental media	Not available	
Environmental effects	Harmful to aquatic life.	
Aquatic toxicity	Not available	
Partition coefficient	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	

13. Disposal Considerations

Disposal instructions	Review federal, state/provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name	Corrosive solid, basic, inorganic, n.o.s. (SODIUM METASILICATE PENTAHYDRATE)
Hazard class	8
UN number	UN3262
Packing group	III
Additional information:	
Special provisions	IB8, IP3, T1, TP33
Packaging exceptions	154
ERG number	154



Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name	Corrosive solid, basic, inorganic, n.o.s. (SODIUM METASILICATE PENTAHYDRATE)
Hazard class	8
UN number	UN3262
Packing group	III
Additional information:	
Special provisions	16



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Sodium carbonate	497-19-8	1 %
Sodium metasilicate	6834-92-0	1 %
Tetrasodium pyrophosphate	7722-88-5	1 %

WHMIS status Controlled
WHMIS classification Class E - Corrosive Material

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

Sodium tripolyphosphate: 5000.0000
 Metaphosphoric acid, trisodium salt: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Hazardous substance

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Tetrasodium pyrophosphate 7722-88-5 Present

U.S. - Massachusetts - Right To Know List

Tetrasodium pyrophosphate 7722-88-5 Present

U.S. - Minnesota - Hazardous Substance List

Tetrasodium pyrophosphate 7722-88-5 Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Tetrasodium pyrophosphate 7722-88-5 sn 1837

U.S. - Pennsylvania - RTK (Right to Know) List

Tetrasodium pyrophosphate 7722-88-5 Present

U.S. - Rhode Island - Hazardous Substance List

Tetrasodium pyrophosphate 7722-88-5 Toxic

Inventory name

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. Other Information

Disclaimer	The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.
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Prepared by	Dell Tech Laboratories Ltd. (519) 858-5021
Other information	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.