SAFETY DATA SHEET

Section I – Chemical Product and Company Identification:

Product Identifier: ***POWER PLUS***
Product Use: Dairy line cleaning
Manufacturer's Name: Matrix Environmental Solutions
Address: 6 Nicolas Avenue
City: Winnipeg Province: Manitoba Postal Code: R2J 0T5
Phone Number: 204-231-8333 Emergency Number:
Prepared by: W. J. Paterson 613-996-6666
Revised by: D. Dickson Date Revised October, 2019

Section 2 – Composition/Information on ingredients

Hazardous Ingredients	*%*	*CAS Number*	*LD_{50} of Ingredient (Specify species & route) (Oral Rat)*
Caustic Soda	*10-30*	*1310-73-2*	*500 mg/kg*
Sodium Hypochlorite	*10-30*	*7684-52-9*	*8,910mg/kg*

Actual Concentrations withheld as trade secret.

Section 3 – Hazards Identification:

Route of Entry: Skin contact, skin absorption, eye contact, inhalation & ingestion
Emergency Overview – Corrosive
WHMS Symbol –Dissolving hand, Tee
Potential Health Effects – Forceful dehydration of biological tissue

Section 4 – First Aid Measures:

Skin contact – Wash with warm water immediately, if burned severely seek medical attention
Eye Contact – Use eyewash bottle while proceeding to hospital emergency
Inhalation – Remove to clear air, if coughing persists seek medical attention
Ingestion – Do not induce vomiting, seek immediate medical attention.

Section 5 – Fire Fighting Measures:

Flammable – No
Means of Extinction: As determined by surrounds, fumes from heated product are extremely toxic
Flashpoint (*C) and Method: Closed cup, boils before flash
Upper Flammable Limit (% by Volume): N/A
Lower Flammable Limit (% by Volume): N/A
Auto Ignition Temperature (*C): Boils before Flash
Explosion Data sensitivity to impact: Nil
Explosion Data sensitivity to static discharge: Nil
Hazardous Combustion Products: If heated to decomposition, chlorine gas, oxides of
NFPA: Health: 2; flammability: 0; Instability:1 , Special N

Section 6 – Accidental Release Measure:
Leak and Spill Procedures:
Stop leak, control the spread of product with impervious or absorbent diking. Check to see if any acid has come into contact with the product. If it has, bring ventilation to maximum possible. Proceed with clean up using cartridge masks with chlorine capable cartridges. Clean up will entail using either sodium sulphite, sodium Meta Biosulphite, hydrogen peroxide. These will dechlorinate the product and reduce health hazards. If dechlorinators are not accessible then use large volumes of potable water to rinse the affected area. Hold the washings for later dechlorination or approved government disposal procedures.

Section 7 – Handling and Storage:

Handling Procedures and Equipment:
Obey good industrial shop practice when decanting or transferring. Use proper clothing, gloves, footwear and face protection.

Storage Requirements:
Cool, dark well ventilated area.

Section 8 – Exposure Control/Personal Protection:

Other (Specify) LD_{50} 2,500 mg/kg (Oral Rat)
Specific Engineering Controls (such as ventilation, enclosed process)
Good ventilation, eyewash station/kit present
Absorbent material for caustic solution

Personal Protective Equipment: Gloves, eye, footwear and clothing
Specify: Waterproof gloves, footwear, apron and face shield for eyes

Section 9 – Physical and Chemical Properties:
Physical State: Liquid
Odour & Appearance: Greenish, bleach smell
Odour Threshold (ppm): 50
Specific Gravity: 1.180 – 1.20
Vapour Density: N.E.
Vapor Pressure (mmHg): N.E.
Evaporation Rate: Slower than Water
Boiling Point (*C): Above 100°
Freezing Point (*C): Below 0
pH:
Coefficient of Water/Oil Distribution: N.E.
Solubility in Water: Complete

Section 10 – Stability and Reactivity:
Chemical Stability: Yes
Incompatibility With Other Substances: Yes
If yes which ones: Mineral and organic acids, organic peroxides; ammonia or ammonia salts, most metals.
Reactivity, and under what conditions: Yes – the reactants would have to be physically mixed together
Hazardous Decomposition Products: Chlorine gas

Section 11 - Toxicological Information:

Effects of Acute Exposure: Skin cracked and bleeding, eyes damaged.
Ingestion: burned and perforated stomach, internal bleeding nose and lungs, irritated productive coughing.
Effects of Chronic Exposure: The effects on chronic exposure would be fatal through all avenues
Irritancy of Product: High
Skin Sensation: Yes
Respiratory sensitization: Yes
Carcinogenicity – LARC : No
Carcinogenicity – No
Reproductive Toxicity: No
Teratogenicity: No
Embrotoxcity: No
Mutagenicity: No
Name of Synergistic Products/Effects: None noted

Section 12 – Ecological Information:

Aquatic Toxicity: Chlorinated organics will bio accumulate. If spilled in open water product will dilute. Chlorinate organics are result. Spillage onto the ground will cause a corrosive hotspot and a region of chlorinated organic molecules, which will disperse naturally.

Section 13 – Disposal Considerations:

Waste Disposal: Obey all pertinent government regulations.

Section 14 – Transport Information:

Special Shipping Information: None
Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hypochlorite)
TDG: Class 8 Pkg II
Package Placard/Marking: Corrosive – UN3266

Section 15 – Regulatory Information:

WHMIS Classification: Class # (D)

Section 16 – Other Information:

Label risk phrases
Corrosive material
Causes burns
Contact with acids liberates toxic gas
Label: Precautionary statements
Keep content cool
Wear protective face shield, waterproof apron, foot protection required
Keep container well ventilated

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