

SAFETY DATA SHEET

Section 1 – Chemical Product and Company Identification:

Product Identifier: TRI-PLUS

Product Use: Demineralize Dairy Lines

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:** 613-996-6666

MSDS Prepared: September 25, SDS **Prepared by:** W. J. Patterson

Revised: October 2019 **Revised by:** D.Dickson

Section 2 – Composition/Information on ingredients

Hazardous Ingredients	%	CAS Number	LD₅₀ of Ingredient <i>Specify Species & Route</i>
Sulphuric Acid	15-40	7664-93-9	2140 mg/kg (Oral & Rat)
Phosphoric Acid	15-40	7664-38-2	1530 mg/kg (Oral & Rat)

Actual Concentrations withheld as trade secret.

Section 3 – Hazards Identification:

Route of Entry – Skin Contact, Skin Absorption, Eye Contact and Ingestion

Emergency Overview – Corrosive Liquid; will cause burns if not washed away promptly

WHMS Symbol – Toxic “T”, Corrosive Burning Hand

Potential Health Effects – Dehydration of Biological Tissue

Section 4 – First Aid Measures:

Skin contact – Wash with cool to warm water until irritation eases.

Eye Contact – Use eyewash bottle/station until irritation eases. If pain continues seek medical attention.

Inhalation – Mist droplets being inhaled is possible. If this occurs remove victim to clean air

Ingestion – Do not induce vomiting; give water, milk or commercial anti-acids. Seek medical attention.

Section 5 – Fire Fighting Measures:

Flammable – No

Means of Extinction: As determined by surroundings, be aware of steam eruptions from overheated drum.

Flashpoint (*C) and Method: Closed cup, boils before flash

Upper Flammable Limit (% by Volume): N.A.

Lower Flammable Limit - N.A.

Autoignition Temperature (*C): Closed cup, boils before flash

Explosion Data sensitivity to impact: Nil

Explosion Data sensitivity to static discharge: Nil

Hazardous Combustion Products: If heated until dry; residue will release oxides of sulfur & phosphates.

NFPA: Health: 2; Flammability: 0; Instability: 1; Special

Section 6 – Accidental Release Measure:

Leak and Spill Procedures:

Stop leak; remove any sodium hypochlorite (12% bleach) from parameters. Stop bleach from interacting with the solution. Restrict (dike) the flow of the TriPlus solution and pump up as much as possible. Do not return pumped up solution to original container. The contaminated solution must be retained for later disposal. The residue left on the floor should be neutralized with caustic soda, soda ash or sodium bicarbonate. Shovel the reacted alkali material up and wash the floor with water. TriPlus should not be allowed to stand on sealed or unsealed cement or asphalt flooring.

Section 7 – Handling and Storage:

Handling Procedures and Equipment:

Use good industrial practice when decanting or transferring this product.

Storage Requirements:

Place the container out of direct sunlight in a cool, dry and well ventilated location. Ensure it is within dike in the case of an accidental release.

Section 8 – Exposure Control/Personal Protection:

Exposure limits: LD₅₀ 4,590 mg/kg (Oral/Rat)

Specific Engineering Controls (such as ventilation, enclosed process)

Good ventilation is necessary when transferring product. The storage and transfer area should have a dike or otherwise restricted to prevent spills from expanding in the case of an accidental release.

Personal Protective Equipment: Gloves, Eyes, Footwear, Clothing

Specify: Gloves, Apron and Footwear should be both waterproofed/resistant and acid resistant. Other clothing should be loose and easily removable. A Splash guard or Face Plate should be worn to protect the eyes.

Section 9 – Physical and Chemical Properties:

Physical State: Liquid

Odour and Appearance: Acid Tang Scent, Red in Colour

Odour Threshold (ppm): 50ppm

Specific Gravity: 1.2 to 1.3

Vapour Density (air=1): Greater than 1

Vapour Pressure (mmHg): N.E.

Evaporation Rate: Slower than Water

Boiling Point (*C): Above 100°

Freezing Point (*C): Below 0

pH: Extremely Acidic

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: Alkalines, Bases, Peroxides, Permanganates, Organic and Inorganic Nitrates.

Reactivity, and under what conditions: Yes – reactants must be physically mixed.

Hazardous Decomposition Products: None noted.

Section 11 - Toxicological Information:

Effects of Acute Exposure: Dehydration of biological Tissue. For Skin: Drying out, possible cracking. Eyes (from misting): Red and tearing. Ingestion: Trace amounts, stomach upset.

Effects of Chronic Exposure: Skin: Tissue deflated, crack and bleeding, damage to nail and cuticles. Eyes (from misting): teary, redness, irritating discharge from tear ducts. Ingestion: Trace, upset stomach, danger to stomach lining, minor decalcification of teeth and cartilage.

Irritancy of Product: Medium

Skin Sensation: Yes

Respiratory sensitization: Yes

Carcinogenicity – IARC : No

Carcinogenicity – ACGIH: No

Reproductive Toxicity: No

Teratogenicity: No

Embrototoxicity: No

Mutagenicity: No

Name of Synergistic Products/Effects: None Noted

Section 12 – Ecological Information:

Aquatic Toxicity: Does not bioaccumulate. Marine Pollutant (sulfuric acid). However does not bio accumulate.

Section 13 – Disposal Considerations:

Waste Disposal: Obey all pertinent government regulations.

Section 14 – Transport Information:

***Special Shipping Information: UN 3264 – Corrosive Liquid, Acidic, Inorganic N.O.S.
(Phosphoric Acid)***

TDG: Class 8 Packing Group II

Section 15 – Regulatory Information:

WHMIS Classification: E

Section 16 – Other Information:

Label Warnings.

Burns eyes, skin, respiratory system.

Irritant.

Do not mix with bleach.

Do not ingest/inhale.

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