

DESCRIPTION

Topsan is a multi-purpose cleaner/sanitizer for use in the dairy industry and food processing industries. Eliminates water spotting and detergent residues.

Features and Benefits:

- Application in dairies and food processing plants.
- Effective cleaner/sanitizer combining quality of acid and surfactants with low pH.
- Excellent wetting ability, can be foam applied.
- Effectively removes mineral deposits, proteins, starches and milkstone.
- Eliminates water spotting and detergent residues.
- Brightens stainless steel while cleaning and sanitizing.
- May be used on food processing equipment, utensils, bulk tanks and CIP systems.
- Manual cleaning applications (brushing) with potable water rinse.
- Use in foamers or pressure spraying units.

SPECIAL INFORMATION

Topsan is a Canadian Food Inspection Agency (CFIA) approved product for use in registered food processing plants.

DIRECTIONS

Uses: Dairy and food processing equipment, utensils, bulk tanks. *Topsan* is best used at temperature range: Up to 190⁰F (90⁰C).

Usage:

To remove milkstone and protein deposits: Use 1 to 2% by volume with water at 120⁰F (49⁰C).

To remove water spotting and detergent residues: Use 0.1 to 0.2% by volume with water.

As a sanitizer: Use 0.2% by volume with water (1 fl.oz. *Topsan* to 5 gallons water).

PHYSICAL DATA

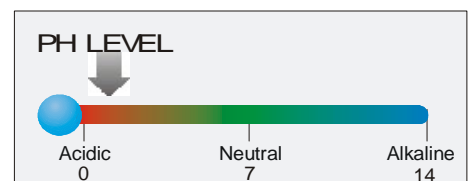
Appearance	Clear liquid
Color	Pale amber
Foam	Moderate
Odor	Mild
pH	Strong acid



New tech products engineered to work harder...so you don't have

Label Codes	
Yellow	Chlorinated
Red	Acidic
Green	Neutral
Blue	Alkaline

Labels are color coded to identify the material type



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **TOPSAN**

WHMIS CODE: E

HMIS

Product Use: *Acid sanitizer.*

Proper Shipping Name: PHOSPHORIC ACID, LIQUID

Hazard Class: Class 8, P.G. III

UN Number: UN 1805

3	Health
2	Flammability
0	Reactivity
C	Personal

M-chem Technologies Inc.
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Delta, BC V3M 6K8, Canada
Phone: (604) 526-5655

EMERGENCY PHONE

Canada: Canutec 613-996-6666

U.S.A.: Chemtrec 800-424-9300

A=Goggles, B=Goggles & Gloves
C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
PHOSPHORIC ACID (80%)	7664-38-2	40.0-60.0	1 ppm	1ppm
LD50 (oral rat) 1530 mg/kg				
LD50 (dermal) 2740 mg/kg				
LC50 No Data				
ALCOHOL ETHOXYLATE	68439-46-3	1.0-5.0	N/A	N/A
LD50 (oral rat) 1376 mg/kg				
LD50 (dermal rabbit) >2 g/kg				
ISOPROPYL ALCOHOL	67-63-0	10.0-15.0	N/D	400 ppm
The above item is reported per 40 CFR 372, Section 313 of Emergency Planning & Community Right-to-know Act of 1986.				
LD50 (oral rat) 5045 mg/kg				
LD50 (dermal) 12800 mg/kg (rabbit)				
LC50 N/D				

SECTION 3 – PHYSICAL DATA

Color and Odor: Dark amber liquid, sulphur dioxide odor. **Boiling Point:** 88°C approx. **Vapor Pressure (mm HG):** N/D
pH: 1.7 @ 4.9% solution. **Physical State:** Liquid. **Melting Point:** N/A **Vapor Density:** N/D
Specific Gravity: 1.372 @ 20°C **Coeff. Water/Oil Dist:** Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble
Odor Threshold: No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: 63°C (146 F) (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Conditions of Flammability: None.
Unusual Fire and Explosion Hazards: Vapor heavier than air may collect in low area where ventilation is poor, and may ignited due to excess heat.
Hazardous Combustion Products: May liberates oxides of phosphorus under fire situation.
Special Fire Fighting: Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions. **Hazardous Polymerization:** Will not Occur.
Incompatibility (material to avoid): Avoid contact with strong alkali or soft metals like aluminum, zinc etc.
Hazardous Decomposition Products: May liberates oxides of phosphorus under fire situation.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, inhalation.
Irritancy of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.
Sensitization: None known. **Mutagenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Reproductive Toxicity:** None known.
Teratogenicity: None known.
Effects of Chronic Exposure: Prolonged or repeated exposure may cause skin irritation or dermatitis, respiratory disorder, or lung damage.
Effects of Acute Exposure to Product: Product exposure may burn eyes and irritate or burn skin. Inhaling vapors or mists may cause respiratory discomfort such as breathing problems, burning, coughing, etc. Ingestion may cause gastrointestinal and abdominal discomfort.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: Use a NIOSH/MSHA approved acid gas respirator for vapors and a dust/mist respirator for misting or spraying operations.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Natural or butyl rubber, nitrile or neoprene gloves.
Eye Protection: Chemical goggles, safety goggles or glasses.
Protective Clothing and Equipment: Long sleeve coveralls. Eye wash recommended in the immediate work area.
Storage and Handling Procedures: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Store at temperatures below 30°C (86°F) and keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Dike and contain large spills. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and out of natural waters.
Waste Disposal Method: Reuse if possible, or otherwise dispose recovered material in accordance with all local, Provincial or Federal Regulations.
Special Shipping Information: Store at temperatures below 30°C (86°F) and keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid: If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division

PHONE: 604-526-5655

LAST UPDATE: 07/04/11

THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE