SAFETY DATA SHEET
SANI- CLEAN

SECTION 1. IDENTIFICATION

Product identifier used on the label: SANI CLEAN

Chemical family : Inorganic acid

Supplier:

Les Équipements d'Érablière CDL Inc.
257, route 279, St-Lazare, (Québec) G0R 3J0
T 418-883-5158 / 1-800-361-5158

24 Hr. Emergency Telephone number:

Canada Call CANUTEC (collect) (613) 996-6666

U.S.A. Call CHEMTREC (800) 424-9300

SECTION 2. HAZARDS IDENTIFICATION

Hazard classification:
Corrosive to Metals - Category 1
Skin Corrosion/Irritation - Category 1
Eye Damage/Irritation - Category 1
Acute Toxicity, dermal - Category 4

Label elements

Hazard pictogram(s)

Signal Word

DANGER!

Hazard statement(s)

H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
H302: Harmful if swallow
H312: Harmful in contact with skin.

Precautionary statement(s)

P234: Keep only in original packaging.
P260: Do not breathe mist.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/clothing and eye/face protection.

P301 + P330 + P331: If swallowed: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P304 + P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician. P390:
Absorb spillage to prevent material damage.

P406: Store in corrosive resistant container with a resistant inner liner. P405:
Store locked up.

P501: Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:
Contact with most metals will generate flammable hydrogen gas. Contact with water gives off heat. Burning produces obnoxious and toxic fumes. Chronic skin contact with low concentrations may cause dermatitis. May cause respiratory tract irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration (% by weight)
Phosphoric acid	7664-38-2	80-85 %

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Have victim rinse mouth with water, then give 3 to 4 glasses of water to drink. Seek immediate medical attention/advice.

Inhalation : Immediately remove person to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Seek immediate medical attention/advice.

Skin contact : Wear appropriate protective equipment. Remove/Take off immediately all contaminated clothing. Immediately flush skin with gently flowing, running water for at least 20 minutes. Do not rub area of contact. Obtain medical attention immediately. Wash contaminated clothing before reuse. Contaminated leather may require disposal.

Eye contact : Wear appropriate protective equipment. Protect unharmed eye. If in contact with eyes, immediately flush eyes with running water for 15 to 30 minutes. If contact lens is present, DO NOT delay flushing or attempt to remove the lens until flushing is done. Obtain medical attention immediately.

Most important symptoms and effects, both acute and delayed

: Causes severe skin irritation. Symptoms may include redness, blistering, pain and swelling. Causes serious eye damage. Permanent eye damage including blindness could result. Symptoms may include severe pain, blurred vision, redness and corrosive damage. If mists are formed, may cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. Ingestion may cause severe burns to the mucous membranes of the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations and bleeding.

Indication of any immediate medical attention and special treatment needed

: Immediate medical attention is required. Causes chemical burns. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, anti-alcohol foams, carbon dioxide and dry chemical. Product may react with water. Use water spray with caution.

Unsuitable extinguishing media

: Use water spray with caution. Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

: Not considered flammable. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Contact with water will generate considerable heat.

Flammability classification : Not flammable.

Hazardous combustion products

: Phosphorus oxides

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA (Self-contained breathing apparatus)

Special fire-fighting procedures

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Use water to cool fire-exposed containers. Prevent run off from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g., sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): Phosphoric acid (5000 lbs / 2270 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe fumes or mists. Avoid contact with skin, eyes and clothing. Showers and eye stations should be available in areas where this product is used and stored. Wash thoroughly after handling. Keep away from heat and flame. Keep away from incompatibles. May react with water, generating heat. When diluting, always add the product to water. Never add water to the product. When mixing with water, stir small amounts in slowly. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Conditions for safe storage

Store in a well-ventilated place. Avoid direct sunlight. Keep away from ignition sources such as static electricity buildup, heat, sparks or flames. Keep container tightly closed. Store locked up. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store in corrosion-resistant containers. Avoid contact with aluminum and others incompatibles materials. Do not freeze. Storage at temperature higher than freezing point to prevent product from freezing.

Incompatible materials

Including but not limited to : Water; Metals (e.g. tin, aluminum, iron, zinc and alloys containing these metals) Strong oxidizers (e.g. Chlorine, Peroxides, etc.), Bases, Acids (e.g. sulfuric acid, nitric acid), Amines, Alcohols

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL
	TWA	STEL	PEL
Phosphoric acid	1 mg/m³	3 mg/m³	1 mg/m³

Exposure controls

Ventilation and engineering measures
: Use only in well-ventilated areas.
Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection : Respiratory protection is required if the concentrations exceed the TLV.
NIOSH-approved respirators are recommended.
A self-contained breathing apparatus should be used in emergency situations or instances where exposure levels are not known. Seek advice from respiratory protection specialists.
Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers. Wear as appropriate: Neoprene; Polyvinylchloride; Viton; Butyl rubber; Nitrile rubber; Polyethylene. Unsuitable material: polyvinyl alcohol. Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

Eye / face protection : Chemical splash goggles must be worn when handling this material. A full-face shield may also be necessary.

Other protective equipment : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations:
Do not breathe fumes or mists. Do not ingest. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product.

Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear colourless liquid.
Odour : Odorless.
Odour threshold : Not applicable.
pH : < 2
Melting/Freezing point : 21°C (70°F)
Initial boiling point and boiling range
: 158°C (316.4°F)
Flash point : Not applicable.

Flashpoint (Method) : Not applicable.
Evaporation rate (BuAe = 1) : N/Av
Flammability (solid, gas) : Not applicable.
Lower flammable limit (% by vol.)
: Not applicable.
Upper flammable limit (% by vol.)
: Not applicable.
Oxidizing properties : None known.
Explosive properties : Not explosive
Vapour pressure : N/Av
Vapour density : 3.4

Relative density / Specific gravity
: 1.68
Solubility in water : 100%
Other solubility(ies) : Not available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: N/Ap
Auto-ignition temperature : N/Ap
Decomposition temperature : Not available.
Viscosity : N/Av
Volatile organic Compounds (VOC's)
: N/Av
Absolute pressure of container
: N/Ap
Flame projection length : N/Ap
Other physical/chemical comments
: Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity and materials incompatibility

PHOSPHORIC ACID reacts exothermically with bases, carbonates, organic peroxides (violent reaction possible) and other oxidants, such as nitrates, chlorates and calcium carbides. May react with active metals, including structural metals such as aluminum and iron, to liberate hydrogen, a flammable gas. Reacts with cyanide compounds to liberate hydrogen cyanide gas. May generate flammable and/or toxic gases on contact with dithiocarbamates, isocyanates, mercaptans, nitrides, nitriles, sulfides, florides, phosphides, and strong reducing agents. It reacts with, among others, aldehydes, amines, amides, alcohols and glycols. May initiate polymerization of certain classes of organic compounds Forms explosive mixture with nitromethane. Reacts violently with sodium tetrahydroborate. In the presence of chlorides can corrode stainless steel to form explosive hydrogen gas. Emits toxic and irritating fumes of phosphorus oxides when heated to decomposition. Contact with water will generate considerable heat.

Chemical stability: Hygroscopic
Possibility of hazardous reactions
Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing.
Conditions to avoid: Freezing, heat, sparks, high temperatures, exposure to moist air or water, contact with incompatible materials
Incompatible materials: See section 7 and above.
Hazardous decomposition products: Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption
: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation
: If mists are formed, may cause severe irritation to the nose, throat and respiratory tract.

Sign and symptoms ingestion
: May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

Sign and symptoms skin : Causes severe skin irritation. Symptoms may include redness, blistering, pain and swelling.

Sign and symptoms eyes : Causes serious eye damage. Permanent eye damage including blindness could result. Symptoms may include severe pain, tearing, redness, swelling and blurred vision.

Potential Chronic Health Effects
: Chronic skin contact with low concentrations may cause dermatitis.

Mutagenicity : N/A

Carcinogenicity : N/A

Reproductive effects & Teratogenicity
: N/A

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects : target Organs: Eyes, skin, respiratory system and digestive system.

The substance or mixture is not classified as specific target organ toxicant, single exposure.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Medical conditions aggravated by overexposure
: Pre-existing skin, eye and respiratory disorders.

Synergistic materials Not available.

Toxicological data See below for toxicological data on the substance. ATE dermal = 1482mg/kg

Chemical name	LC_{50}(4hr) inh, rat	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Phosphoric acid	N/Av	3500 mg/kg (85%); 4400 mg/kg (75%)	> 1260 mg/kg (85%); > 3160 mg/kg (75%)

Other important toxicological hazards : Not available.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity **:** The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. May release phosphate which result in algae growth, increased turbidity and depleted oxygen in the marine environment; at extremely high concentration and/or quantities, this may be hazardous to fish or other marine organisms.

Persistence and degradability : No data is available

Bioaccumulation potential **:** No data is available

Mobility in soil **:** The product is water soluble and may spread in water systems. Will likely be mobile in the environment. High mobile in soil

Other Adverse Environmental effects

: No data is available

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal **:** Handle waste according to recommendations in Section 7.

Methods of Disposal **:** Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA **:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION

Canada (TDG)/ USA (DOT)

UN number: 1805

Proper Shipping Name: Phosphoric Acid, SOLUTION

Hazard class: 8

Packing group: III

SECTION 15 - REGULATORY INFORMATION

Canadian Information:

All ingredients listed appear on the Domestic Substances List (DSL).

US Federal Information:

Ingredient listed on TSCA

SECTION 16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
EPA: Environmental Protection Agency
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substances Control Act (US)
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:

SDS of suppliers
NIOSH - The national institute for occupational safety and health

CDL strongly recommends that each of its customers or recipients of this safety data sheet read it carefully and consult, if necessary or appropriate, experts in the field in order to become familiar with the information contained in this sheet and of all hazards associated with this product, and to fully understand them. The information given is provided in good faith and we believe it to be accurate as of the effective date noted above. However, no warranty is offered, either expressed or implied. Regulatory requirements are subject to change and may differ by location. It is the responsibility of the buyer/user to ensure that their activities comply with the legislation in force. The information presented here pertains only to the product as shipped. Since the conditions of use of the product are beyond the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources of information such as manufacturer's own safety data sheets, we are not responsible and cannot be held responsible for sheets obtained from sources outside our company. If you have such a sheet, or if you are concerned that your sheet is out of date, please contact us to obtain the most recent version.

Preparation Date: August 29, 2023

Version: SANI-CLEAN SDS-VE1-230829