PACE® PLANT HEALTH ADVOCATES

SAFETY DATA SHEET

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PACE STRIP-IT PRO™

HEAVY-DUTY OUTDOOR, GREENHOUSE AND IRRIGATION LINE CLEANER

1. Product & Company Identification

Product Name: PACE STRIP-IT PRO
Other means of identification: STRIPIT

Recommended use of the chemical and restrictions on use
RECOMMENDED USE:
Industrial Cleaning Agent

RESTRICTIONS ON USE:
Use only as stated on label.

Safety Data Sheet Supplier
Pace 49 Inc.
#140 - 766 Cliveden Place
Delta, B.C., V3M 6C7, Canada
Phone: (800) 799-6211 Website: pace49.com

EMERGENCY TELEPHONE NUMBER
24 Hour Emergency Phone Number (800) 270-6809

2. Hazards Identification



Classification	Hazard Category
Corrosive to Metals	Category 1
Acute toxicity - oral	Category 3
Acute toxicity - dermal	Category 3
Acute toxicity - inhalation	Category 3
Skin corrosion/ irritation	Category 1
Eye damage/ irritation	Category 1
Carcinogenicity	Category 1

Signal Word:
Danger

Hazard statements:
- H290 May be corrosive to metals.
- H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
- H314 Causes severe skin burns and eye damage.
- H350 May cause cancer.

Precautionary Statements - Prevention
- P234 Keep only in original packaging.
- P264 Wash hands and any affected area thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P260 Do not breathe dusts or mists.
- P203 Obtain, read and follow all safety instructions before use.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Precautionary Statements - Response
- P390 Absorb spillage to prevent material-damage.
- P321 Specific treatment (see supplemental first aid information on this label)
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302 + P361 + P354 + P352 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash with plenty of water.
- P363 Wash contaminated clothing before reuse.
- P301 + P302 + P304 + P316 IF SWALLOWED, ON SKIN or INHALED: Get emergency medical help immediately.
- P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
- P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
- P318 IF exposed or concerned, get medical advice.

Precautionary Statements - Storage
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

Precautionary Statements - Disposal
- P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/Information on Ingredients

Chemical Name	CAS No.	Weight %
Hydrofluoric acid	7664-36-3	1-5
Sulphuric acid	7664-93-9	10-30
Alkyl(C10-16)benzene-sulfonic acid	68439-46-3	1-5
Sodium alkylnaphtha-lenesulfonate	Secret-PR010960-A	1-5
Ammonium fluoride	12125-01-8	5-10

4. First Aid Measures

GENERAL ADVICE: If symptoms persist, call a physician.

SKIN CONTACT: URGENT CARE REQUIRED! Flood area with cool water for at least 20 minutes. Make sure water doesn't flow onto another part of the person's body or onto you. Don't use a strong stream of water, if possible. As you flush the burn (not before), remove jewelry or articles of clothing with chemical on them, unless they're stuck to the person's body. Don't try to neutralize the burn with acid or alkali. This could cause a chemical reaction that worsens the burn. Apply calcium gluconate gel (2.5%) generously and rub it in gently even if there is no pain. Rinse with water then apply again. Continue this treatment until pain has disappeared. If calcium gluconate gel is not available, apply compresses soaked with 10% calcium gluconate solution. Call a physician to the site of the accident.

EYE CONTACT: DANGER OF BLINDNESS! Have the person immediately rinse the eye or eyes under a faucet, in a gentle shower, or with a clean container of water. Keep the person's face so that the injured eye is down and to the side. Avoid spraying a high-pressure water stream into the eye or eyes. Flush with lukewarm water for 15 to 30 minutes. For severe burns, continue flushing until you see a doctor or you arrive in an emergency room. The person should keep the eye open as wide as possible. Wash the person's hands thoroughly to make sure no chemical is still on them. Flush the eye to remove contact lenses. If they do not come out, try to gently remove them AFTER flushing. Do not rub the eye or place a bandage over the eye. While waiting for medical care, have the person wear sunglasses to decrease light sensitivity.

INHALATION: Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention. As soon as possible repeatedly have the casualty deeply breath a glycocortioid inhalation spray in. Mouth to mouth resuscitation is not recommended.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control centre immediately. When directed by physician, give orally either 1% aqueous calcium gluconate solution, milk or calcium/ magnesium containing anti-acid. Such solutions can be beneficial but also may be problematic if they induce vomiting.

SELF-PROTECTION OF THE FIRST AIDER: Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed
SYMPTOMS: Any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed
NOTE TO PHYSICIANS: Treat symptomatically.

5. Fire-Fighting Measures

SUITABLE EXTINGUISHING MEDIA: Use dry chemical. Carbon dioxide (CO_2). Water spray (fog). Alcohol resistant foam.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a solid water stream as it may scatter and spread fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Keep product and empty container away from heat and sources of ignition. Risk of ignition.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

UNUSUAL FIRE/EXPLOSION HAZARDS: Contact with reactive metals may produce flammable/explosive hydrogen gas. A large amount of heat is generated when this product is diluted with water.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides, hydrogen fluoride, oxides of sulphur.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
PERSONAL PRECAUTIONS: Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions
ENVIRONMENTAL PRECAUTIONS: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up
METHODS FOR CONTAINMENT: Prevent further leakage or spillage if safe to do so.

METHODS FOR CLEANING UP: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dam up. Take precautionary measures against static discharges.

7. Handling & Storage

Precautions for safe handling
Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Do not breathe dust/ mist/ vapour. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Keep out of reach of children. Store at temperatures below 86 °F and above 41 °F. Do not store in metal or glass containers. Adding this product to water will result in exothermic reaction, where heat will be released. Add this product to water slowly with mixing, do not add water to this product. Do not enter a storage tank or container that has contained this product, even if it appears empty.

8. Exposure Controls/Personal Protection

Chemical Name	ACGIH	OSHA PEL	NIOSH
Sulfuric Acid 7664-93-9	TWA: 0.2 mg/m³	8-hour TWA: 1 mg/m³ California: 0.1 mg/m³ (STEL) 3 mg/m³	1 mg/m³
Hydrogen fluoride as F 7664-39-3	TWA: 0.5 ppm STEL C 2 ppm	8-hour TWA 3 ppm California: 0.4 ppm as F (STEL) 1 ppm as F	3 ppm (C) 6 ppm [15-min]

OTHER INFORMATION: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls
ENGINEERING CONTROLS: Showers, Eyewash stations & Ventilation systems

Individual protection measures, such as personal protective equipment
EYE/FACE PROTECTION: Tight sealing safety goggles. Face protection shield.

SKIN AND BODY PROTECTION: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

GENERAL HYGIENE: When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical & Chemical Properties

Properties	Values
Physical State	Liquid
Color	Clear, amber
Odor	Acidic odour. No added fragrance.
Odor threshold	No information available
pH	<1
Specific gravity	1.09 @ 68 °F
Viscosity	Thin like water
Melting point/freezing point	No information available
Flash point	>199.94 °F Closed Cup
Boiling point / boiling range	No information available
Evaporation rate	No information available
Flammability	Not flammable, not combustible.
Upper flammability limit in air	No information available
Lower flammability limit in air	No information available
Vapor pressure	No information available
Vapor density	No information available
Water solubility	Soluble in water
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
VOC content (%)	No VOC

10. Stability & Reactivity

REACTIVITY: No data available

STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing.

CONDITIONS TO AVOID: Temperatures above 86 °F and below 41 °F. Direct sunlight.

INCOMPATIBLE MATERIALS: Metals, metal alloys, cyanides, cyanogen fluoride, sulfides, silicon-bearing materials, acids, alkalis, fluorine gas, propylene glycol, silver nitrate, arsenic trioxide, phosphorus pentoxide, metal oxides, hydroxides, nitrates, amines, carbonates, reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides, hydrogen fluoride, oxides of sulphur.

11. Toxicological Information

Acute Toxicity Estimate (ATE):

Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
282 mg/kg 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.	215 mg/kg 30% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.	1212 ppm 18% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

Information on likely routes of exposure
INHALATION: Might cause serious irritation to respiratory track. May be toxicl if inhaled.

EYE CONTACT: Corrosive to the eyes and may cause severe damage including blindness.

SKIN CONTACT: The product causes burns of eyes, skin and mucous membranes. May be toxic if in contact with skin.

INGESTION: Causes burns. May cause irritation and nausea. May be toxic if ingested.

Information on toxicological effects
SYMPTOMS: No Information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
CORROSIVITY: Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to eyes.

CARCINOGENICITY: Exposure to strong inorganic acid mists containing sulfuric acid CAS# 7664-93-9 is associated with increased risks of laryngeal and lung cancers.

12. Ecological Information

Ecotoxicity
The environmental impact of this product has not been fully investigated.

13. Disposal Considerations

Waste treatment methods
Disposal should be in accordance with applicable regional, national and local laws and regulations.

CONTAMINATED PACKAGING: Do not reuse container.

US EPA WASTE NUMBER: D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	RCRA	RCRA-Basis for Listing	RCRA-D Series Wastes	RCRA - U Series Wastes
Hydrofluoric acid 7664-39-3	U134	**Yes**	**Yes**	**U134**

14. Transport Information

NOTE: The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

U.S. Department of Transportation (USDOT)

Inner Packaging Not Over 1.0L: LTD QTY (LTDY)
Hazard Class: 8
Packing Group: II
UN1760 CORROSIVE LIQUID, N.O.S. (sulfuric acid, ammonium bifluoride), 8, II (HM-AS2F)
AIR TRANSPORT: (IATA/ ICAO) 2X0.1L
Per Package: LTD QTY (LTDY)
For packages greater than 2x0.1L refer to IATA shipping guidelines and above hazard class information.

15. Regulatory Information

International Inventories
TSCA: Complies DSL/NDSL: Complies
TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values (%)
Sulfuric acid 7664-93-9	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Reactive Hazard	No
Sudden release of pressure hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65
This product has been evaluated and does not require warning labeling under California Proposition 65.

Chemical Name	California Proposition 65
Sulfuric Acid 7664-93-9	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	NJ	MA	PA
Sulfuric acid 7664-93-9	X	X	X
Ammonium fluoride 12125-01-8	X	X	X
Hydrofluoric acid 7664-39-3	X	X	X
Linear dodecyl benzene sulphonic Acid 27176-87-0	X	X	X

16. Other Information

Acronym List

ACGIH	American Conference of Governmental Industrial Hygienists
C	Ceiling Limit - The maximum exposure limit
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
DOT	Department of Transportation
DSL/NDSL	Domestic Substances List/Non-domestic Substance List
EC50	Half maximal effective concentration
EPA	Environmental Protection Agency
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
LC50	Lethal concentration, 50%
LD50	Lethal dose, 50%
NIOSH	The National Institute for Occupational Safety and Health
N.O.S.	Not Otherwise Specified
NPRI	National Polluant Release Inventory
NTP	National Toxicology Program
OHSR	Occupational Health & Safety Regulation
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PNOC	Particulates not otherwise classified
PMCC	Pensky-Martens Closed Cup
POW	Partition Coefficient Octanol: Water
RCRA	Resource Conservation and Recovery Act
REL	Recommended Exposure Limit
SDS	Safety Data Sheets
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act Chemical Substance
TWA	Time-Weighted Average

PREPARED BY: Pace Solutioins Regulatory Department

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.