

**TOXIC REDUCTION PLAN
for**

**Hydrochloric Acid
(CAS # 7647-01-0)**

**TECHNO STRIP LTD.
1 Blair Drive, Brampton,
Ontario, L6T 2H4**

December 10, 2012

**TOXIC REDUCTION PLAN SUMMARY
 for**

**Hydrochloric Acid
 (CAS # 7647-01-0)**

This plan is for Techno Strip Ltd. (TSL) and refers to the usage of the Hydrochloric Acid (HCl) during the metal cleaning process.

BASIC FACILITY INFORMATION

Name & CAS # of Substance	Hydrochloric Acid	7647-01-0
Facility Identification and Site Address		
Company Name	Techno Strip Ltd.	
Facility Name	Same	
	Physical Address	Mailing Address
Facility Address	1 Blair Drive, Brampton, Ontario, L6T 2H4	Same
Spatial Coordinates of Facility	603437.22mE / lat:43.69278; 4838609.96mN / lon:-79.71789;	
Number of Employees	18	
NPRI ID	004991	
Ontario MOE ID Number	1135601	
Parent Company (PC) Information-same as above		
Business Number	133437400	
Primary North American Industrial Classification System Code (NAICS)		
2 Digit NAICS	33	
4 Digit NAICS	3399	
6 Digit NAICS	339990	
Company Contact Information		
Facility Public Contact	Jerry Wettlaufer, President	Same address as facility
	jerry@technostrip.com	
	Phone: 905-459-6196	
	Fax: 905-459-6298	
Facility Technical	Gabriel Cruceru, Plant Manager	Same address as facility
	gabriel@technostrip.com	
	Phone: 905-459-6196	
	Fax: 905-459-6298	
Person who prepared the plan	Gabriel Cruceru, Plant Manager	

Highest Ranking Employee	Jerry Wettlaufer, President	
Planner Information		
Planner Responsible for Making Recommendations	Name: Mihaela Draghici	Address: 7-150 Jardin Drive, Concord, Ontario, L4K 3P9
	Planner license Number: TSRP0131	
	Email address: mdraghici@envirovision-inc.com	
	Phone: (905) 791-1783	
	Fax: (905) 761-1783	

STATEMENT OF INTENT

TSL is committed to playing a leadership role in protecting the environment. Whenever feasible, TSL will reduce the Hydrochloric Acid (HCl) use in the metal cleaning process and releases to air in full compliance with all Federal, Provincial & Local Regulations.

OBJECTIVES OF THE PLAN AND TARGETS

Our goal is to reduce the use of HCl by 3% at our facility (market permitting) within the next 5 years of preparing this plan.

FACILITY DESCRIPTION – Description of why HCL is used and/or created

TSL offers a variety of paint stripping and metal cleaning services such as:

- Thermal paint stripping
- Solvent based paint stripping
- Water based alkaline paint stripping and degreasing
- Water based acid rust/surface contamination removal

All activities and services are provided at our facility only.

The metal cleaning process involves using a water based solution of HCl for surface oxidation/rust removal. Parts that go through this process can come from any other stripping processes if extra surface cleaning is required or they can go straight.

The process tank (20ft x 8ft x 6ft) is operated at ambient temperature and pressure and any evaporation is controlled 24/7 by an attached wet scrubber.

HCl offers a high surface cleaning quality at an efficient cleaning rate. Any other cleaning processes (mechanical buffing, media blasting, etc.) have serious limitations when it comes to large part volumes and a variety of shapes and sizes. They can create airborne solid contaminants that are difficult to control.

HCl is not created at any stage during the cleaning process.

DESCRIPTION OF OPTION TO BE IMPLEMENTED

TSL will be implementing one option under Training or Improved Operating Practices

Identification of Options

All TSL employees are required to undergo regular and ad-hoc training to increase the safety and efficiency at the facility. TSL has made efforts to reduce the employee's exposure and involvement into purchasing, receiving, transfer and handling of the raw material as well as the waste material.

One specific area where the human factor is instrumental is the batch loading technique (metal parts placement) and the batch transfer between the processing tank and rinsing. All TSL personnel directly involved into this process is specifically trained in order to optimize the batch size and parts loading process, as well as proper batch transfer for minimal solution "drag-out" and waste.

Estimated HCl Reductions from Improved Operating Practices

	Used (tonnes/year)	Created (tonnes/year)	Contained in Product (tonnes/year)	On-site Releases (tonnes/year)			Disposal (tonnes/year)		Transfer Off-Site for Treatment (tonnes/year)
				Air	Water	Land	On-site	Off-site	
Baseline	>10 to 100	0.00	0.00	>0 to 1	0.00	0.00	0.00	0.00	>1 to 10
Reduced Total	>10 to 100	0.00	0.00	>0 to 1	0.00	0.00	0.00	0.00	>1 to 10
Reduction	>0 to 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	>0 to 1
% Reduction	3%	N/A	0%	3%	0.00	N/A	0%	0%	3%

Timelines for achieving the estimated reduction in use and or creation

TSL expects to reduce the use of HCl by 3% (>0 to 1 tonnes) the next 5 years. HCl is not created at the facility in any of the processes.

STATEMENT THAT THE PLAN SUMMARY REFLECTS THE PLAN

This Plan Summary accurately reflects the Toxic Reduction Plan for the Hydrochloric Acid (CAS # 7647-01-0) dated December 10, 2012.

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 10, 2012, I, Jerry Wettlaufer, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

[Hydrochloric Acid]



Jerry Wettlaufer
President, Techno Strip Ltd.
(Highest Ranking Employee)

December 10, 2012

Date

CERTIFICATION BY LICENSED PLANNER

As of December 10, 2012, I, Mihaela Draghici, certify that I am familiar with the processes at Techno Strip Ltd. that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the *Toxics Reduction Act, 2009* that are set out in the plan dated December 10, 2012 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

[Hydrochloric Acid]



December 10, 2012

Mihaela Draghici
Environmental Consultant
Toxic Substance Reduction Planner, TSRP0131

Date