# **Safety Data Sheet**

Issue Date: 31-May-2005

Revision Date: 30 MAY 2015

Version 1

## 1. IDENTIFICATION

Product Identifier

**Product Name** 

X-88-P

Other means of identification

SDS#

BOW-1515

**Product Code** 

1515

UN/ID No

UN1760

Recommended use of the chemical and restrictions on use

Recommended Use

Descaling compound.

Details of the supplier of the safety data sheet

**Supplier Address** 

BEAVER of WISCONSIN, INC.

2470 SOUTH DRIVE PLOVER, WI 54467

Emergency Telephone Number

**Company Phone Number** 

(800) 236-0577

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

#### Appearance PURPLE liquid

Physical State Liquid

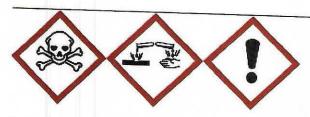
#### Classification

Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 1 Sub-category B
Specific target organ toxicity (single exposure)	Category 1
configuration (onligite exposure)	Category 3

#### Signal Word Danger

### **Hazard Statements**

Harmful if swallowed Toxic if inhaled Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a poison center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Immediately call a poison center or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Do not induce vomiting

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	The second secon
Hydrochloric acid	CAS NO	Weight-%
Trydrocilloric acid	7647-01-0	90

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

#### First Aid Measures

General Advice

Immediately call a poison center or doctor/physician.

**Eye Contact** 

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

Skin Contact

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse. Call a physician immediately.

X-88-P

Revision Date: 30 MAY 2015

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a poison center or doctor/physician.

Ingestion

Immediately call a poison center or doctor/physician. Rinse mouth. Do not induce vomiting.

### Most important symptoms and effects

**Symptoms** 

Causes severe skin burns and eye damage. May cause respiratory irritation.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Corrosive material. Acids react with most metals to release hydrogen gas, which may form an explosive mixture with air.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

## 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protective equipment as required. Before attempting clean up, refer to hazard

caution information in other section of this sheet.

**Environmental Precautions** 

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

## Methods and material for containment and cleaning up

**Methods for Containment** 

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Cover the contaminated surface with sodium bicarbonate (baking soda) or lime and add water to form a slurry. Scoop up the slurry and wash down the site with sodium bicarbonate solution.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when handling this product.

Revision Date: 30 MAY 2015

# Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep locked

up and out of reach of children. Store at room temperature.

**Packaging Materials** 

Empty containers should be triple rinsed.

**Incompatible Materials** 

Chlorine bleach. Alkalis. Metals such as aluminum, tin, and zinc.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	00117.55	
Hydrochloric acid		OSHA PEL	NIOSH IDLH
7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m³ Ceiling: 5 ppm Ceiling: 7 mg/m³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m

## Appropriate engineering controls

**Engineering Controls** 

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** 

Safety glasses. Chemical splash goggles. Refer to 29 CFR 1910.133 for eye and face

protection regulations.

Skin and Body Protection

Neoprene gloves. Neoprene apron. Neoprene boots. Refer to 29 CFR 1910.138 for

appropriate skin and body protection.

**Respiratory Protection** 

If TLV of any component is exceeded, use a NIOSH approved full face respirator. Refer to

29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash face, hands and any exposed skin thoroughly after

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

**Physical State Appearance** 

Liquid

Purple liquid

Odor

Not determined

Color

Purple

**Odor Threshold** 

Not available

Property рН

Values 0-1

Remarks • Method

Melting Point/Freezing Point

-17 °C / 0 °F 100 °C / 212 °F

**Boiling Point/Boiling Range** Flash Point

None

**Evaporation Rate** 

>1

(butyl acetate = 1)

Flammability (Solid, Gas) Upper Flammability Limits

Liquid-Not applicable Not available

Lower Flammability Limit Vapor Pressure Vapor Density

Not available Greater than water Not available

Revision Date: 30 MAY 2015

**Specific Gravity** 

**Water Solubility** 

1.150

Solubility in other solvents

Completely soluble Not determined

**Partition Coefficient** Auto-ignition Temperature

Not determined Not determined Not determined

**Decomposition Temperature** Kinematic Viscosity **Dynamic Viscosity** 

Not determined Like water

**Explosive Properties** 

Reacts with most metals to release flammable hydrogen gas, which can form explosive

**Oxidizing Properties** 

Not determined

**VOC Content (%)** 

None

## 10. STABILITY AND REACTIVITY

#### Reactivity

Reacts with metals, and alkali.

#### **Chemical Stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

Will react with most metals (aluminum, iron, zinc, tin, etc.) to release flammable hydrogen gas.

**Hazardous Polymerization** 

Under normal conditions of storage and use, hazardous polymerization will not occur.

### **Conditions to Avoid**

Incompatible Materials.

### **Incompatible Materials**

Chlorine bleach. Alkalis. Metals such as aluminum, tin, and zinc.

### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** 

**Eye Contact** 

Causes severe eye damage.

**Skin Contact** 

Causes severe skin burns.

Inhalation

Toxic if inhaled.

Ingestion

Harmful if swallowed.

Component Information

Hydrochloric acid Dermal LD50 Dermal LD50	The second secon
	lation LC50
7647-01-0 > 5010 mg/kg (Rabbit) = 1.68 r	mg/L (Rat)

# Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

X-88-P

Revision Date: 30 MAY 2015

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	
dydrochloric acid 7647-01-0		Group 3	NIF	OSHA

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure

May cause respiratory irritation.

## Numerical measures of toxicity

Not determined

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Component Information

Chemical Name	Algae/aquatic plants	1.1011	Toxicity to microorganisms	Crustacea
Hydrochloric acid 7647-01-0	HAVE THE SAME AND A SA	282: 96 h Gambusia affinis mg/L LC50 static	microorganisms	

#### Persistence/Degradability

Not determined.

#### **Bioaccumulation**

Not determined.

#### Mobility

Not determined

#### Other Adverse Effects

Not determined

# 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

**Disposal of Wastes** 

Disposal should be in accordance with applicable regional, national and local laws and

**Contaminated Packaging** 

Disposal should be in accordance with applicable regional, national and local laws and regulations. Triple rinse empty container with water.

## 14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

X-88-P

Revision Date: 30 MAY 2015

UN/ID No

**Proper Shipping Name** 

UN1760

Corrosive liquid, n.o.s. (Hydrochloric acid)

**Hazard Class Packing Group** 

8 11

IATA

UN/ID No

UN1760

**Proper Shipping Name** 

Corrosive liquid, n.o.s. (Hydrochloric acid)

**Hazard Class Packing Group** 

8 11

IMDG

UN/ID No

UN1760

**Proper Shipping Name** 

Corrosive liquid, n.o.s. (Hydrochloric acid)

**Hazard Class Packing Group** 

8 11

# 15. REGULATORY INFORMATION

#### International Inventories

Chemical Name	TSCA	DSL	NIDOL	T		COLOR C				
Hydrochloric acid	Present	DJL V	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	NICO
	Fresent	X		Present		Present	X	Present	FICUS	AICS
							^	riesent	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **CERCLA**

Chemical Name Hydrochloric acid	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ
7647-01-0	5000 lb	5000 lb	RQ 5000 lb final RQ
			RQ 2270 kg final RQ

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the

Chemical Name	CAS No	THE STATE OF THE S	derai Regulations, Part 372
And the second s	OAS NO	Weight-%	SARA 313 - Threshold
Hydrochloric acid - 7647-01-0	7647-01-0	52	Values %

### CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
Hydrochloric acid	5000 lb			Substances

### **US State Regulations**

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Hydrochloric acid	New Jersey	Massachusetts	Pennsylvania
7647-01-0	X	X	remsylvania

## 16. OTHER INFORMATION

**NFPA** 

**Health Hazards** 

Not determined

Flammability

Instability

Special Hazards

**HMIS** 

**Health Hazards** 

Flammability Not determined

Physical Hazards Not determined

**Personal Protection** Not determined

Issue Date:

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31-May-2005 30 MAY 2015

New SDS format

**Disclaimer** 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.

**End of Safety Data Sheet**