



AURORA MARINE INDUSTRIES INC.

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Material Safety Data Sheet

**ALGAE STRIP**

Version No: 1 Revision Date: June 1, 2009

**1. Identification of the preparation and company**

Preparation/Product NanALGAE STRIP  
Product Code 01150  
Intended Use Algae,mussel,barnacle remover for boats.  
Application Method Wipe on, rinse off.  
Company Name Aurora Marine Industries Inc.  
7015 Ordan Drive, Unit 11  
Mississauga, Ontario  
L5T 1Y2  
Canada  
Telephone No. 905-564-4995  
Fax No. 905-564-4956  
24 hour Emergency Telephone No.- 613-996-6666/\*666(cellular)

**2. Composition/Information on ingredients**

This product contains the following substances that present health hazard

Component	CAS-No.	Weight %	LD50 (speciec & route)
Hydrochloric Acid	7647-01-0	25%-30%	Aucete oral LD50:900mg/Kg(rabbit) Modrate toxicity,corrosive. Aucete dermal LD50:>5010mg/Kg(rabbit)Slight to very low toxicity. Aucete Inhalation LD50:3124ppm(rat)(1hr) Slight to very low toxicity.

**3. Hazard Identification of the product**

**Hazard Summary** **Caution! Corrosive**  
Causes severe burns and eye damage.Harmful if swallowed.Inhalation can cause respiratoruy system irritation.

**Potential Health Effects**

**Primary Routes of Entry:**Inhalation, Eye contact & Skin contact

**Eye:** Immediate pain, Can caus burns and corneal damage.

**Skin:** Corrosive! solution can cause burns to the skin.

**Inhalation:** Vapor or mist from solution can cause nasal irritation.

**Ingestion:** Causes irritation or corrosive burns to mouth, throat, esophagus and stomach.

**Carcinogenicity:** Hydrochloric acid is not classified as carcinogenic by ACGIH (American Conference of Governmental Industrial Hygienists) or IARC (International Agency for Research on Cancer), not regulated as carcinogens by OSHA (Occupational Safety and Health Administration), and not listed as carcinogens by NTP(National Toxicology Program).

**4. Fist aid measures**

**General-**In all cases of doubt or when symptom persists seek medical attention .

**Inhalation-**Move to fresh air

**Eye Contact-**Rinse immediately with plenty of water.Seek medical advise,

**Skin Contact-** Wash with soap & water.

**Ingestion-**Rinse mouth with water & drink 2-3 glass of water to dilute, only induce vomiting if directed by physicians. Seek medical advise,

**5. Fire-fighting measures**

Product is not flammable.

**6. Accidental release measures**

Recover for use if possible.

Ventilate the area.

Wipe or absorb or flush with water.

Dispose of according to regulations.

Your attention is drawn to the disclaimer on the Product Data Sheet which with this Safety Data Sheet and the package labeling comprise an integral information system about this product. Copies of the Product Data Sheet are available from Aurora Marine on request or from our Internet site: [www.auroramarine.com](http://www.auroramarine.com)

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#### 7. Handling and storage

**Handling:** Take all precautions to avoid personal contact. Prevent release of vapor or mist into workplace air.

Always ensure adequate ventilation in handling areas.

**In Storage-**Store in cool dry area,out of direct sunlight and away from heat sources.

**In Use-**Avoid skin & eye contact, Do not breath vapors or mist etc.

**Storage-**Do not freeze, store in well ventilated area, keep container closed.

#### 8. Exposure controls and personal protection

##### Engineering Controls:

Ventilate Adequately.Use local exhaust or general room/dilution ,ventilation as appropriate to control employee exposer in the work place.

##### Exposure Limits

Exposure limits are listed below, if they exist

Component	CAS	OSHA Ceiling Exposure Limit (PEL-C)	NIOSH REL	ACGIH Ceiling Exposure Limit (TLV-C)
Hydrochloric acid	7647-01-0	5 ppm (7 mg/m <sup>3</sup> )	50 ppm	2 ppm (3 mg/m <sup>3</sup> )

**Respiratory Protection** Use air -purifying respirator.

**Eye Protection -** Wear safty glasses or splashproof goggles.

**Hand Protection -** Wear rubber or plastic gloves.

**Skin Protection-** Wear safty clothings, impervious to this material.

#### 9. Physical and chemical properties

<b>Physical State-</b>	liquid
<b>Color</b>	Light green
<b>pH</b>	0.1-0.5
<b>Odour</b>	Wintergreen / Pungent
<b>Flash Point (deg C)-.</b>	NA
<b>Viscosity (cSt)-</b>	1.012cP
<b>Specific Gravity-</b>	1.122
<b>Vapor Density-</b>	NA
<b>Upper Explosive Limit-</b>	NA
<b>Lower Explosive Limit-</b>	NA
<b>Solubility in Water-</b>	Yes
<b>Freezing point-</b>	<0°C

#### 10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Do not mix with alkalies & active metals.

#### 11. Toxicological information

Product can cause eye & skin burn,inhalation of vapours cause nasal irritation.

Ingestion causes irritation or corrosive burns to mouth, throat, esophagus and stomach.

#### 12. Ecological information

There are no data available on the product itself.

#### 13. Disposal considerations

Waste material must be disposed of in accordance with federal,state,provincial & local enviornmental control regulations.

Empty containers should be recycled or disposed of through an approved waste management facility.

When using information provided in this data sheet advice should be obtained from the Waste Regulation Authority,as to weather the special waste regulations apply.

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**14. Transport information**

Transport only in accordance with the following regulations:

	TDG-CLR	DOT	ICAO/IATA
Shipping Name	CONSUMER COMMODITY	CONSUMER COMMODITY ORM-D	Hydrochloric acid solution
Hazard class/Division			8
Identification No.			UN 1789
Packaging Group			II
Marine Pollutant			No

*Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations*

**15. Regulatory information**

**Canadian Classification**

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and MSDS (Material Safety Data Sheet) contains all the information required by the CPR.

**Controlled Products Regulations (WHMIS) Classification:**

Class E – Corrosive

**CEPA / Canadian Domestic Substances List (DSL):** On the Canadian Domestic Substances List (CEPA/DSL)

**USA Classification**

**TSCA Inventory:**All components of this product are listed on USA TSCA inventory.

**OSHA Classification:** Hazardous by definition of Hazard Communication Standard (29 CFR § 1910.1200)

**Sources Used for Inform** Suppliers, ACGIH, CCOHS

**16. Other information**

**National Fire Protection Association (NFPA) Rating**

**Hazardous Materials Identification System (HMIS) Rating**

	NFPA	HMIS
HEALTH	3	3
FIRE	0	0
REACTIVITY	1	1
SPECIAL		

4 = Extreme/Severe  
3 = High/Serious  
2 = Moderate  
1 = Slight  
0 = Minimum  
W = Water Reactive

**Legend**

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
CCOHS	Canadian Centre for Occupational Health and Safety
PEL	Permissible Exposure Limit
REL	Recommended exposure limit
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
WHMIS	Workplace Hazardous Materials Information System
TDG CLR	Transport of Dangerous goods-Clear Language Regulations
DOT	Department of transportation
IATA	International Air transport Association
ICAO	The International Civil Aviation Organization
TSCA	Toxic Substances Control Act(Chemical Substance Inventory)
NA	Not Applicable
NE	Not Established
ND	Not Determined
EST	Estimated

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