

In the produce business, FOODSAFETY is your first priority.

Tsunami" 100 is the only EPA-registered" antimicrobial water additive product on the market that dramatically reduces pathogens in process water.

*EPA registeration #1677-164

Tsunami reduces
99.9%
of Escherichia coli 0157:H7;
Listeria monocytogenes
& Salmonella enterica
in fruit and vegetable processing waters









SPECIALIZED PRODUCT - BROAD APPLICATIONS

Tsunami products are specially formulated for the flume systems in fruit and vegetable processing plants, providing kill of a variety of species.

- Completely soluble in water ~ helps eliminate potential off-gassing in heavily soiled systems
- · Effective across a broad pH range no need to acidify
- Taste neutral will not impart any odor, taste or discoloration to end products
- Environmental implications will not place extra demands on wastewater systems (e.g. pH excursions and effluent concerns related to chlorine byproducts)

FRESH CUT GREENS SHELF LIFE EXTENSION with TSUNAMI 100: collard & kale

mustard 1-2 & turnip add

7-8 additional days

1-2 additional day

Tsunami is an easy-to-use, cost-effective solution designed to help maximize operational efficiencies and improve product quality.

IMPROVED AIR QUALITY DUE TO INSOLUBILITY IN FLUME WATER 1.

Improved the overall air quality at a Western food processor by entirely eliminating the threat of off-gassing and odor concerns.

CONSISTENT DOSAGE FOR MICROBIAL CONTROL

Tsunami has low reactivity with organics and soils in the wash water, maintaining a consistent dosage for microbial control.

Percent Total Available Chlorine or Peracetic Acid Remaining in Water 10 Minutes After Adding 10% (wt.) Cut Vegetable

Vegetable	Total Available Chlorine Remaining	Peracetic Acid Remaining
Cauliflower	75%	93%
Onion	27%	88%
Potato	37%	94%
Carrot	70%	100%
Lettuce	70%	96%
Green Pepper	65%	93%
Celery	75%	93%
Broccoli	70%	93%
Cabbage	70%	87%

IMPROVED PRODUCT QUALITY

Thanks to Tsunami™ 200, a food processor drastically reduced yeast, mold, coliform and total plate counts, resulting in significantly improved finished quality of its further processed potatoes.

A SIMPLE, COST-EFFECTIVE SOLUTION

- Tsunami has low reactivity with organics and soils in wash water, maintaining a consistent dosage for microbial control
- Tsunami is ready to feed directly from the shipping container - no pH control, precursor chemicals or on-site generation equipment necessary

IMPROVED OPERATIONAL EFFICIENCIES



Reduced labor and water usage due to a cleaner flume

Improved product quality; less spoilage and rejected product

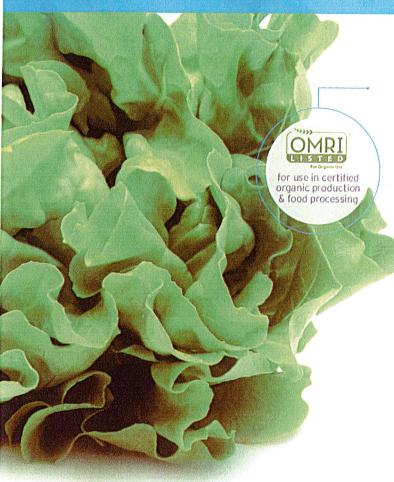


Reduced use of ancillary chemicals (e.g. acid, defoamer, waste treatment additives)



Improve product quality, drive efficiencies and reduce water usage when you implement the Tsunami program.

Raise the food safety bar with Tsunami



TO LEARN MORE VISIT OR CALL:

WWW.ECOLAB.COM 1.800,392,3392

Product Overview

Tsunami 100:

- Reduces the pathogenic and spoilage microorganisms in flume and wash water systems
- May be applied in all major transport, storage and washing operations, flumes, chillers/coolers and wash vessels
- Is the only EPA-registered antimicrobial water additive product on the market that reduces pathogens in process water

Tsunami 200 (antimicrobial food additive):

- Reduces spoilage organisms including yeast, mold and bacteria on processed fruit and vegetable surfaces, and also reduces significant numbers of pathogenic bacteria on processed fruit and vegetable surfaces
- May be used in a variety of further-processed fruit and vegetable applications
- Significantly reduces pathogenic and spoilage microorganisms on processed fruit and vegetable surfaces, including those that can occur via cross contamination

Note: Tsunami 100 and 200 are not for use as hard food contact surface sanitizers.





SAFETY DATA SHEET

TSUNAMI 100

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: TSUNAMI 100

Other means of identification :

Not applicable

Recommended use

Sanitizer

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

0.0036 % - 0.95 %

Company

Ecolab Inc.

1 Ecolab Place

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency health

information

1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date

05/04/2017

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Oxidizing liquids : Category 3
Organic peroxides : Type F
Acute toxicity (Oral) : Category 3
Skin corrosion : Category 1A
Serious eye damage : Category 1

Product AT USE DILUTION

Acute toxicity (Oral)
Eye irritation

: Category 4 : Category 2B

GHS label elements

Product AS SOLD

Hazard pictograms







Signal Word

: Danger

Hazard Statements

: Heating may cause a fire.
May intensify fire; oxidizer.

Toxic if swallowed.

Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep/Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Keep only in original container. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective