

5661 Branch Road Wapato, WA 98951 800.936.6750 www.paceint.com

# **Epi-Clean**

## POSTHARVEST

## **SAFETY DATA SHEET**

## 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Epi-Clean **Product Code:** 10048

Product Use: Neutral pH Cleaner for Fresh Fruits and Vegetables

Product Restrictions: For Agriculture Use Only
Manufacturer/Importer/Supplier/Distributor information

Manufacturer: Pace International, LLC

Address: 5661 Branch Road, Wapato, WA 98951

Phone Number: 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)

Medical Emergency Phone Number: 888-271-4649 (PROPHARMA/PROSAR)

Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

Supplier: See above

## 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard)

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Classification:

Physical Hazards: Not classified

Health Hazards:

Skin corrosion / irritation, Category 2

Serious eye damage / eye irritation, Category 1

Environmental Hazards: Not classified

## **Hazard Symbols:**

Signal Word:

DANGER

Hazard Statements: H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary Statements:** 

#### **Prevention Statements:**

P264 Wash hands thoroughly after handling.

P280 Wear protective clothing, chemical resistant gloves,

and safety glasses.

## **Response Statements:**

P302/352 IF ON SKIN: Wash with plenty of soap and water. P321 Specific treatments see Section 4 First Aid Measures

on SDS.

P332/313 If skin irritation occurs: Get medical

advice/attention.

P362/364 Take off contaminated clothing and wash it before

reuse.

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor for

medical advice.

## Storage Statements:

Store away from incompatible materials (see Section 10 of

the SDS).

## **Disposal Statements:**

P501 Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

None known.

None.

Hazard(s) not otherwise classified (HNOC): Other Hazards:

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

 Chemical name
 CAS #
 %

 Dodecylbenzene sulfonic acid
 27176-87-0
 1-5\*

 Benzenesulfonic acid, C10-13-alkyl
 68411-30-3
 1-5\*

 derivs., sodium salts
 3
 1-5\*

 Sodium dodecylbenzene sulfonate
 25155-30-0
 1-5\*

 Sodium Naphthalene sulfonate
 532-02-5
 5-10\*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

\* US GHS: The exact percentage (concentration) of composition has been withheld as a trade

**comments:** secret in accordance with paragraph (i) of §1910.1200.





## FIRST AID MEASURES

General Advice: Have the product container, label or Safety Data Sheet with you when calling a poison control

center, physician, or going for treatment. You may also contact PROPHARMA (PROSAR) 1-

888-271-4649 for emergency medical treatment information.

Skin contact: IF ON SKIN: Wash skin with plenty of soap and water/shower. If skin irritation occurs: Get

medical advice/attention. Take off immediately all contaminated clothing. Wash before reuse.

Eye contact: IF IN EYES: Hold eye open and rinse cautiously with water for 15 – 20 minutes. Remove

contact lenses, if present, after the first 5 minutes if easy to do, then continue rinsing eye.

Immediately call a POISON CENTER or doctor for medical advice.

Inhalation: If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. Ingestion:

Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to

reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is

convulsing. Obtain medical attention.

Inhalation: Most important Symptoms / effects, acute

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

and delayed

Indication of any immediate medical attention and special

treatment needed:

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

## 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

**Special Hazards Arising from** During fire, gases hazardous to health may be formed.

the Chemical:

Special protective equipment

and precautions for firefighters:

Firefighting

equipment/instructions:

Specific methods:

**Hazardous combustion** 

products:

Firefighters must wear full protective clothing including self-contained

breathing apparatus.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other

involved materials.

May include and are not limited to: Oxides of carbon and oxides of sulfur.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, **Protective Equipment and Emergency procedures:** 

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, (see

section 8 of the SDS).

Methods and Materials for Containment and Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place

into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section

13 of the SDS.

**Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground. Do not discharge

into lakes, streams, ponds or public waters.





## 7. HANDLING & STORAGE

**Precautions for Safe** 

Handling:

Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Wear appropriate personal protective equipment (see Section 8). Avoid breathing vapors or mists of this product. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Conditions for Safe Storage,

including any Incompatibilities: Store in a cool, dry, well ventilated area away from direct sunlight. Keep container tightly closed and upright when not in use. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of

children and livestock.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: No exposure limits noted for ingredients. Biological Limit Values: No biological exposure limits noted for the ingredients.

Appropriate engineering

controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye wash station and Eye/face protection:

washing facilities should be available.

Skin protection

Hand protection: Wear nitrile, neoprene, vinyl (PVC), or rubber gloves.

Other: Wear protective clothing (long sleeved shirt, pants, and shoes).

Respiratory Where exposure guideline levels may be exceeded, use an approved NIOSH protection: respirator. Respirator should be selected by and used under the direction of a

trained health and safety professional following requirements found in OSHA's

respirator standard (29 CFR 1910.134)

Thermal hazards: Not applicable.

General hygiene Handle in accordance with good industrial hygiene and safety practice. Wash considerations: thoroughly after handling. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical state: Upper/Lower flammability or Not available Liquid

exposure limits:

Appearance / Color: Not available Light amber Vapor pressure: Odor: Not available Not available Vapor density: (air =1)

Odor threshold: Not available Specific Gravity: (H<sub>2</sub>O = 1) 1 02

pH: Melting/Freezing point: Not available Solubility: Miscible in water Partition coefficient Not available

(n-octanol-water):

Initial boiling point and

Not available

Auto-ignition temperature:

Not available

boiling range:

Not flammable

Not available

Flash point: **Evaporation rate:** 

Not available

**Decomposition temperature:** Viscosity:

Not available

Flammability (solid, gas): Not applicable

**Explosive Properties:** Not explosive **Oxidizing Properties:** Not oxidizing

## 10. STABILITY & REACTIVITY

Reactivity hazards: This product may react with strong oxidizing agents.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Chemical stability: Material is stable under normal conditions.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources. Do not mix

with other chemicals.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: May include and are not limited to: Oxides of carbon and oxides of sulfur.





## 11. TOXICOLOGICAL INFORMATION

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

IngestionMay cause stomach distress, nausea or vomiting.InhalationNo adverse effects due to inhalation are expected.

Skin contactCauses skin irritation.Eye contactCauses serious eye irritation.

Symptoms related to the physical, chemical and

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation.

>2000 mg/kg, ECHA

>2000 mg/kg, ECHA

toxicological May cause redness and pain.

characteristics

Information on toxicological effects

**Acute toxicity** 

Components Species Test Results

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (CAS#68411-30-3)

Acute

Dermal

LD50 Rat >2000 mg/kg, 24 Hours, ECHA

Inhalation Not available

LC50 Oral

LD50 Rat 1900 mg/kg, ECHA

Components Species Test Results

Dodecylbenzene sulfonic acid (CAS# 27176-87-0)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Rat

Oral

LD50 Rat 650 mg/kg, ECHA Components Species Test Results

Sodium dodecylbenzene sulfonate (CAS# 25155-30-0)

Acute

Dermal

LD50 Rat

Inhalation

LC50 Not available

Oral

LD50 Rat 650 mg/kg, ECHA
Components Species Test Results

Sodium Naphthalene sulfonate (CAS# 532-02-5)

**Acute** Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat 4150 mg/kg, ECHA

Skin corrosion/irritation: Causes skin irritation.

Exposure minutes Not available Erythema value Not available Oedema value Not available

Serious eye damage/eye irritation: Causes serious eye irritation.

Corneal opacity value
Iris lesion value
Conjunctival reddening value
Conjunctival oedema value
Recover days

Not available
Not available
Not available
Not available

**Respiratory sensitization:** Not a respiratory sensitizer.

**Skin sensitization:** This product is not expected to cause skin sensitization.





**Test Results** 



Germ cell mutagenicity: No data available to indicate product or any components present at

greater than 0.1% are mutagenic or genotoxic

Carcinogenicity: See below

US. California Proposition 65 - CRT: Listed date/Carcinogenic substance

Naphthalene (CAS# 91-20-3)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental

effects.

**Teratogenicity:** Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity -

single exposure:

Specific target organ toxicity -

repeated exposure:

Not classified.

Not classified.

Aspiration hazard: Material does not present an aspiration hazard.

**Chronic effects:** Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity See below
Ecotoxicological data Species

Components
Benzenesulfonic acid. C10-13-alkyl derivs., sodium salts (CAS#68411-30-3)

 Algae
 IC50
 Algae
 9 mg/L, 72 Hours

 Crustacea
 EC50
 Daphnia
 0.63 mg/L, 48 Hours

Aquatic

Fish Rainbow trout, Donaldson trout (Oncorhynchus 3.8 – 6.6 mg/L, 96 hours

mykiss)

Dodecylbenzene sulfonic acid (CAS# 27176-87-0))

Crustacea EC50 Daphnia 5.88 mg/L, 48 Hours

Sodium dodecylbenzene sulfonate (CAS# 25155-30-0)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 3.26 - 14.51 mg/L, 48 hours Fish LC50 Rainbow trout, Donaldson trout (Oncorhynchus 3.2 - 5.6 mg/L, 96 hours

mykiss)

Persistence/ degradability: No data is available on the degradability of this product.

Bioaccumulative potential: Not available
Mobility in soil: Not data available
Mobility in general: Not available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

13. DISPOSAL CONSIDERATIONS

**Disposal instructions:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

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

laws and regulations.

**Local disposal** Dispose of in accordance with local regulations.

Regulations

Hazardous waste code This product, in its original form and concentration, would not designate as a US

federal hazardous waste when disposed

Waste from residues / Dispose of in accordance with local regulations. Empty containers or liners may unused products retain some product residues. This material and its container must be disposed

retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even

after container is emptied. Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. TRANSPORT INFORMATION

**Transport of Dangerous**Classification method: Classified according to Part 2, sections 2.1-2.8 of the **Goods (TDG) Proof of**Regulations for the transport of dangerous goods. If applicable, the technical name

Classification and product classification will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.







## 15. REGULATORY INFORMATION

US FEDERAL This product is a "Hazardous Chemical" as defined by the OSHA Hazard

**REGULATIONS** Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Dodecylbenzene sulfonic acid (CAS# 27176-87-0)) Listed Sodium dodecylbenzene sulfonate (CAS# 25155-30-0) Listed

SARA 304 Emergency Release Notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical Yes

Classified Hazard Skin corrosion or irritation

Categories Serious eye damage or eye irritation

Listed

SARA 313 (TRI reporting) Not regulated.

#### OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

#### **US STATE REGULATIONS**

## US - California Hazardous Substances (Director's): Listed substance

Dodecylbenzene sulfonic acid (CAS# 27176-87-0)) Listed

Sodium dodecylbenzene sulfonate (CAS# 25155-30-0)

US - Illinois Chemical Safety Act: Listed substance

Dodecylbenzene sulfonic acid (CAS# 27176-87-0))

Sodium dodecylbenzene sulfonate (CAS# 25155-30-0)

US - Louisiana Spill Reporting: Listed substance

Dodecylbenzene sulfonic acid (CAS# 27176-87-0)) Listed

Sodium dodecylbenzene sulfonate (CAS# 25155-30-0) Listed

US - Texas Effects Screening Levels: Listed substance

Dodecylbenzene sulfonic acid (CAS# 27176-87-0)) Listed Sodium dodecylbenzene sulfonate (CAS# 25155-30-0) Listed

Sodium Naphthalene sulfonate (CAS# 532-02-5)

**US. Massachusetts RTK - Substance List** 

Dodecylbenzene sulfonic acid (CAS# 27176-87-0))

Sodium dodecylbenzene sulfonate (CAS# 25155-30-0)

#### US. New Jersey Worker and Community Right-to-Know Act

Dodecylbenzene sulfonic acid (CAS# 27176-87-0))

Sodium dodecylbenzene sulfonate (CAS# 25155-30-0)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Dodecylbenzene sulfonic acid (CAS# 27176-87-0))

Sodium dodecylbenzene sulfonate (CAS# 25155-30-0)

#### **US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Naphthalene (CAS# 91-20-3) Listed: April 19, 2002

## Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA)Yes

Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)





## 16. OTHER INFORMATION

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. It is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information are set forth on the labeling and the SDS.

SDS preparation date: November 23, 2020 Replaces SDS dated: May 26, 2015

Changes since last Several updates throughout SDS all Version: 2

revision: sections.

