

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

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.

Composition

* US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Comments:

4. 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:	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Most important Symptoms / effects, acute and delayed	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.
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 the Chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters:	Firefighters must wear full protective clothing including self-contained breathing apparatus.
Firefighting equipment/instructions:	Move containers from fire area if you can do so without risk.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous combustion products:	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	Use good industrial hygiene practices in handling this material. Do not get in
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Handling:	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	
Eye/face protection:	Wear safety glasses with side shields (or goggles). Eye wash station and 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 protection:	Where exposure guideline levels may be exceeded, use an approved NIOSH 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 considerations:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability or exposure limits:	Not available
Appearance / Color:	Light amber	Vapor pressure:	Not available
Odor:	Not available	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.02
pH:	7	Solubility:	Miscible in water
Melting/Freezing point:	Not available	Partition coefficient (n-octanol-water):	Not available
Initial boiling point and boiling range:	Not available	Auto-ignition temperature:	Not available
Flash point:	Not flammable	Decomposition temperature:	Not available
Evaporation rate:	Not available	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	
Ingestion	May cause stomach distress, nausea or vomiting.

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics	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.
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Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (CAS#68411-30-3)		
Acute		
<i>Dermal</i>		
LD50	Rat	>2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i>	Not available	
LC50		
<i>Oral</i>		
LD50	Rat	1900 mg/kg, ECHA

Components	Species	Test Results
Dodecylbenzene sulfonic acid (CAS# 27176-87-0)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Rat	>2000 mg/kg, ECHA
<i>Oral</i>		
LD50	Rat	650 mg/kg, ECHA

Components	Species	Test Results
Sodium dodecylbenzene sulfonate (CAS# 25155-30-0)		
Acute		
<i>Dermal</i>		
LD50	Rat	>2000 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	650 mg/kg, ECHA

Components	Species	Test Results
Sodium Naphthalene sulfonate (CAS# 532-02-5)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
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	Not available
Iris lesion value	Not available
Conjunctival reddening value	Not available
Conjunctival oedema value	Not available
Recover days	Not available

Respiratory sensitization: Not a respiratory sensitizer.

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

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:	Not classified.
Specific target organ toxicity - repeated exposure:	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	Test Results
Components		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (CAS#68411-30-3)		
Algae	IC50	Algae
Crustacea	EC50	Daphnia
Aquatic		
Fish		Rainbow trout, Donaldson trout (Oncorhynchus mykiss)
		3.8 – 6.6 mg/L, 96 hours
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)
Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss)
		3.26 - 14.51 mg/L, 48 hours
		3.2 – 5.6 mg/L, 96 hours
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 Regulations	Dispose of in accordance with local 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 / unused products	Dispose of in accordance with local regulations. Empty containers or liners may 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 Goods (TDG) Proof of Classification	Classification method: Classified according to Part 2, sections 2.1-2.8 of the Regulations for the transport of dangerous goods. If applicable, the technical name and product classification will appear below.
U.S. Department of Transportation (DOT)	Not regulated as dangerous goods.

15. REGULATORY INFORMATION

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

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

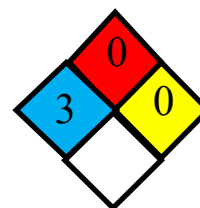
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA)	Yes
	Inventory	

*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: September 26, 2025

Replaces SDS dated: November 23, 2020

Changes since last Rebranding

Version: 3

revision: