

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Acidex
Product Code: 10001
Product Use: Hard Water "Bloom" Remover for Apples
Product Restrictions: For Agricultural 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:
Corrosive to metals, Category 1

Health Hazards:
Skin corrosion / irritation,
Category 1
Serious eye damage / eye
irritation, Category 1

Environmental Hazards,
Not classified

Hazard Symbols:



Signal Word:
DANGER

Hazard Statements:

H290 May be corrosive to metals.
H314 Causes severe skin burns
and eye damage.
H318 Causes serious eye
damage.

**Hazard(s) not otherwise
classified (HNOC):**

Supplemental information:

Precautionary Statements:

Prevention Statements:

P234 Keep only in original container.
P260 Do not breathe mists, vapors, or spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective clothing, chemical resistant gloves, and safety glasses.

Response Statements:

P390 Absorb spillage to prevent material damage.
P301/330/331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated
clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.
P304/340 IF INHALED: Remove victim to fresh air and keep comfortable for
breathing.
P310 Immediately call a POISON CENTER or doctor for medical advice.
P321 Specific treatments see Section 4 First Aid Measures on SDS.
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:

P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal Statements:

P501 Dispose of contents/container in accordance with applicable regional,
national and local laws and regulations.
None known.

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS #	%
Alkylated naphthalene sulfonate, sodium salt	Trade Secret	1 – 5*
Dodecylbenzene sulfonic acid	27176-87-0	1 – 5*
Phosphoric acid	7664-38-2	1 – 5*
Sodium dodecylbenzenesulfonate	68081-81-2	3 – 7*

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

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.
Inhalation:	IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor for medical advice.
Skin contact	IF ON SKIN: Wash skin with plenty of soap and water/shower. Immediately call a POISON CENTER or doctor for medical advice. 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.
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. Immediately call a POISON CENTER or doctor for medical advice.
Most important Symptoms / effects, acute and Delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of any immediate medical attention and special treatment needed:	Treat patient symptomatically. Symptoms may be delayed

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
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:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
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. Oxides of phosphorus.

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 breathe mist or vapor. 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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. Prevent entry into waterways, sewers, basements or confined areas. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental Precautions:	Do not discharge into lakes, streams, ponds or public waters.

7. HANDLING & STORAGE

Precautions for Safe Handling:	Do not get in eyes, on skin or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment (see
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Conditions for Safe Storage, including any Incompatibilities:

Section 8). Observe good industrial hygiene practices. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Store locked up. Store in corrosive resistant container with a resistant inner liner. 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:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Phosphoric acid (CAS# 7664-38-2)	PEL	1 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value
Phosphoric acid (CAS# 7664-38-2)	STEL	3 mg/m ³
	TWA	1 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Phosphoric acid (CAS# 7664-38-2)	STEL	3 mg/m ³
	TWA	1 mg/m ³

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:	Impervious gloves. Confirm with reputable supplier first.
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 hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability or exposure limits:	Not available
Appearance / Color:	Translucent, pale amber	Vapor pressure:	Not available
Odor:	Sharp, acidic	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.037 – 1.057 @ 20°C
pH:	4.5 - 6	Solubility:	Soluble
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:	May be corrosive to metals. Reacts violently with strong alkaline substances. This product may react with reducing agents. This product may react with strong oxidizing agents.
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Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Do not mix with other chemicals.
Incompatible materials:	Bases. Strong oxidizing agents. Reducing agents. Metals.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon. Oxides of phosphorus.

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	Prolonged inhalation may be harmful.	
Skin contact	Causes skin irritation.	
Eye contact	Causes serious eye damage.	
Symptoms related to the physical, chemical and toxicological characteristics	Causes skin irritation. Causes serious eye damage. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.	
Information on toxicological effects		
Acute toxicity		
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
Phosphoric acid (CAS# 7664-38-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2740 mg/kg, RTECS< CNESST
<i>Inhalation</i>		
LC50	Guinea pig, Mouse, Rabbit, Rat	3846 mg/m3, 1 hours, ECHA
<i>Oral</i>		
LD50	Mouse	1250 mg/kg, CNESSR
	Rat	3500 mg/kg, CCOHS
		1530 mg/kg, CNESSR
Sodium dodecylbenzenesulfonate (CAS# 68081-81-2)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, OECD SIDS
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Mouse	2160 – 2250 mg/kg, OECD SIDS
	Rat	1080 – 1980 mg/kg, OECD SIDS
Skin corrosion/irritation:	Causes severe skin burns and eye damage.	
Exposure minutes	Not available	
Erythema value	Not available	
Oedema value	Not available	
Serious eye damage/eye irritation:	Causes serious eye damage.	
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:	Ethylene Oxide (CAS# 75-21-8)	
	Sulfuric Acid (CAS# 7664-93-9)	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)		

Reproductive toxicity:	Not listed.
Teratogenicity:	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure:	Not available
Specific target organ toxicity - repeated exposure:	Not classified.
Aspiration hazard:	Not classified.
Chronic effects:	Material does not present an aspiration hazard. Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity	See below	
Ecotoxicological data	Species	Test Results
Components		
Dodecylbenzene sulfonic acid (CAS# 27176-87-0)		
Crustacea EC50	Daphnia	5.88 mg/L, 48 hour
Phosphoric acid (CAS# 7664-38-2)		
Aquatic		
Acute		
Crustacea LC50	Water flea (Daphnia magna)	4.6 mg/L, 12 hr
Fish LC50	Mosquitofish (Gambusia affinis affinis)	3 – 3.5 mg/L, 96 hr
Persistence/ degradability:	No data is available on the degradability of this product.	
Bioaccumulative potential:	Not available	
Mobility in soil:	Not 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:	Disposal should be made in accordance with applicable regional, national and local laws and 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	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.
	DOT
UN number:	UN1805
Proper shipping name:	Phosphoric acid solution
Hazard class(es):	8
Packing group:	III

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
	Phosphoric acid (CAS# 7664-38-2)	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
Classified hazard categories Corrosive to metal
 Skin corrosion / irritation
 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

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. See below

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

Dodecylbenzene sulfonic acid (CAS# 27176-87-0) Listed
 Phosphoric acid (CAS# 7664-38-2) Listed

US - Illinois Chemical Safety Act: Listed substance

Dodecylbenzene sulfonic acid (CAS# 27176-87-0)
 Phosphoric acid (CAS# 7664-38-2)

US - Louisiana Spill Reporting: Listed substance

Dodecylbenzene sulfonic acid (CAS# 27176-87-0) Listed
 Phosphoric acid (CAS# 7664-38-2) Listed

US - Minnesota Haz Subs: Listed substance

Phosphoric acid (CAS# 7664-38-2) Listed

US - Texas Effects Screening Levels: Listed substance

Dodecylbenzene sulfonic acid (CAS# 27176-87-0) Listed
 Phosphoric acid (CAS# 7664-38-2) Listed
 Sodium dodecylbenzenesulfonate (CAS# 68081-81-2) Listed

US. Massachusetts RTK - Substance List

Dodecylbenzene sulfonic acid (CAS# 27176-87-0)
 Phosphoric acid (CAS# 7664-38-2)

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

Dodecylbenzene sulfonic acid (CAS# 27176-87-0)
 Phosphoric acid (CAS# 7664-38-2)

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

Dodecylbenzene sulfonic acid (CAS# 27176-87-0)
 Phosphoric acid (CAS# 7664-38-2)

US. Rhode Island RTK

Phosphoric acid (CAS# 7664-38-2)

US. California Proposition 65



WARNING: This product can expose you to chemicals including Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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

Ethylene Oxide (CAS# 75-21-8) Listed: July 1, 1987
 Sulfuric Acid (CAS# 7664-93-9) Listed: March 14, 2003

US. California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Oxide (CAS# 75-21-8) Listed: August 7, 2009

US. California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene Oxide (CAS# 75-21-8) Listed: February 27, 1987

US. California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene Oxide (CAS# 75-21-8) Listed: August 7, 2009

Inventory status

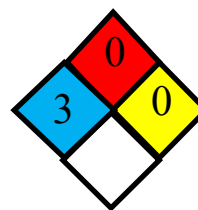
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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: February 24, 2022

Changes since last Rebranding

Version: 4

revision: