

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

Acidex Duo

POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Acidex Duo **Product Code:** 10361

Product Use: **Dual Spectrum Fruit Cleaner**

Product

Restrictions: For Agriculture Use Only Manufacturer: Pace International, LLC

Address: 5661 Branch Road, Wapato, WA 98951

800-936-6750 (Monday-Friday, 7:00 a.m. - 4:00 p.m.) Phone Number: Medical Emergency Phone Number: 888-271-4649 (PROPHARMA/PROSAR) Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

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, CORROSIVE Category 1 Skin irritation, Category 1B Eye irritation, Category 1 Skin Sensitization, Category 1

Hazard Symbols:





Signal Word: DANGER

Hazard Statements:

Other Hazards:

(HNOC):

Hazard(s) not otherwise classified

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

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

Precautionary Statements:

Prevention Statements:

P234 Keep only in original container.

P260 Do not breathe mists.

P264 Wash hands thoroughly after handling.

P280 Wear impermeable clothing, safety goggles or face shield and

chemical resistant gloves.

P261 Avoid breathing mist, vapors or sprays.

P272 Contaminated work clothing should not be allowed out of the

Response Statements:

P390 Absorb spillage to prevent material damage.

P301/330/331 IF SWALLOWED: Rinse mouth. Do NOT induce

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. P333/313 If skin irritation or rash occurs: Get medical

advice/attention. P321 Specific treatments see Section 4 First Aid Measures. P304/340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor for medical

P321 Specific treatments see Section 4 First Aid Measures. 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:

P406 Store in corrosive resistant container with a resistant inner

P405 Store locked up. Disposal Statements:

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

None known.

None known.





3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	Concentration (w/w %)
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	5.5%
d-Limonene	5989-27-5	5.0%
Phosphoric acid	7664-38-2	4.5%
C6-C12 alkyl alcohol ethoxylate phosphoric acid	68921-24-4	3.2%
Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	2.0%
Other ingredients*	Balance	79.8%
*Other Ingredients not identified are trade secrets and non-hazardous.		

FIRST AID MEASURES

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

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

888-271-4649 for emergency medical treatment information.

If on Skin (or

hair):

Take off immediately all contaminated clothing. Wash skin with plenty of soap and

water/shower. If redness, burning, rash or irritation persists, get medical advice/attention.

Wash contaminated clothing before reuse.

If in Eyes: Hold eye open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses,

after the first 5 minutes if present and easy to do, then continue rinsing eye. Immediately call a

POISON CENTER or doctor for medical advice.

If Ingested: Rinse mouth, DO NOT induce vomiting.

If Inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER or doctor for medical advice. If person is not breathing, call 911 or an ambulance,

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. May cause an allergic skin reaction. Dermatitis. Rash.

and then give artificial respiration, preferably mouth-to-mouth, if possible.

Most important Symptoms / effects, acute

and Delayed:

Indication of any immediate medical

attention and special treatment needed:

Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Not flammable. Use any means suitable for extinguishing surrounding fire.

Unsuitable Extinguishing

Media:

Special Hazards Arising from

the Chemical:

Special protective equipment

and precautions for

firefighters:

Water spray may be used to keep fire exposed containers cool. Not available.

During fire, gases hazardous to health may be formed. May include and are

not limited to: Oxides of phosphorus. Firefighters should 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. Move containers from fire area if you can do so without risk.

Fire-fighting equipment/instructions:

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 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. Keep out of low areas. 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).

Environmental Precautions:

Do not allow product to enter sewers, lakes, streams or other bodies of water.

Containment / Clean-Up

Methods:

Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Never return spills to original containers

for re-use. Clean surface thoroughly to remove residual contamination.

Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

7. HANDLING & STORAGE

Precautions for

Use good industrial hygiene practices in handling this material.

Safe Handling:

DO NOT get in eyes, on skin or clothing. Use only with adequate ventilation.

Do not breathe mist or vapor. Keep container tightly closed.

Wear appropriate personal protective equipment (see Section 8 of the SDS).

Wash thoroughly after handling.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for

Store locked up.

Safe Storage. Store in a cool, dry, well-ventilated place.

including any Store in a corrosion resistant container with a resistant inner liner. Incompatibilities: Store away from incompatible materials (see Section 10 of the SDS).

Keep container upright to prevent leakage and release into environment.

Keep out of reach of children.

EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Components Value Type Phosphoric Acid CAS# 7664-38-2 PEL 1 mg/m3

US. ACGIH Threshold Limit Values

US. NIOSH: Pocket Guide to Chemical Hazards

Value Components Type Phosphoric Acid CAS# 7664-38-2 STEL 3 mg/m3 TWA 1 mg/m3

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Value Components Type d-Limonene CAS# 5989-27-5 TWA 165.5 mg/m3 30 ppm

Biological limit values Exposure guidelines Appropriate engineering

No biological exposure limits noted for the ingredient(s).

See above

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 chemical goggles or face shield. Eye fountain and washing facilities

should be available.

Skin protection

Thermal hazards

Hand protection Nitrile, neoprene, and vinyl (PVC) gloves or other impervious gloves.

Other Use of an impervious apron or clothing.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH

> respirator, acid gas filter combination. 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)

Not applicable.

Use good industrial hygiene practices in handling this material. When using General hygiene considerations

do not eat, drink, or smoke. Wash thoroughly after handling.

PHYSICAL & CHEMICAL PROPERTIES

Physical state: Upper/Lower flammability Not available Liquid

limits.

Appearance / Color: Pale Amber Vapor pressure: Not available

Translucent

Odor: Orange Odor Vapor density: (air =1) Not available

Odor threshold: Not available Specific Gravity: (H₂O = 1) 1.025

Solubility: 100% Soluble :Ha 2.5 Not available **Partition coefficient** Melting/Freezing point: Not available

(n-octanol-water):

Pour Point Not available Auto-ignition temperature: Not available 212°F (100°C) **Decomposition temperature:** Not available

Initial boiling point and

boiling range:

Flash point: Not flammable Viscosity: Not available **Explosive properties: Evaporation rate:** Not available Not explosive Flammability (solid, gas): Not applicable Oxidizing properties: Not oxidizing

10. STABILITY & REACTIVITY

Reactivity hazards: May be corrosive to metals. This product may react with strong oxidizing

agents.

Possibility of Hazardous Hazardous polymerization does not occur.

Reactions:

Stable under recommended storage conditions. Chemical stability:

Conditions to avoid: Do not mix with other chemicals.

Incompatible materials: Bases. Reducing agents. Oxidizers. Metals.

Hazardous decomposition May include and are not limited to: Oxides of phosphorus.

products:

11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Ingestion Causes digestive tract burns. May cause stomach distress, nausea or vomiting.

Inhalation May cause respiratory tract irritation or chemical burns.

Skin corrosion / May cause chemical burns. Harmful contact may not cause immediate pain. May

irritation: cause an allergic skin reaction. Eye damage / Causes serious eye damage.

membranes.

irritation:

Symptoms related to the Contact with this material may cause burns to the skin, eyes and mucous

physical, chemical and

toxicological characteristics



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Acidex Duo International...

Information on toxicological effects

May cause severe skin burns and eye damage. May cause an allergic skin reaction. **Acute toxicity**

Test Results Components **Species**

Alcohols, C12-14-secondary, ethoxylated (CAS 84133-50-6)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Inhalation

LC50 Not available

Oral

LD50 > 2000 mg/kg Rat 1600 mg/kg

C6-C12 alkyl alcohol ethoxylate phosphoric acid (CAS 68921-24-4)

Acute

Oral

LD50 Rat 3950 mg/kg

Inhalation

LC50 Not available

d-Limonene (CAS 5989-27-5)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

Inhalation

Not available LC50

Oral

LD50 Mouse 5600 mg/kg Rat > 2000 mg/kg

4400 mg/kg

Glucopyranose, oligomeric, decyl octyl glycosides (CAS 68515-73-1)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours

> Rat > 2000 mg/kg

Inhalation

Not available LC50

Oral

> 5000 mg/kg LD50 Rat

> 2000 mg/kg

Phosphoric acid (CAS 7664-38-2)

Acute

Dermal

LD50 Rabbit 2740 mg/kg

Inhalation

LC50 Guinea pig, Mouse, Rabbit, Rat 61 mg/m3, 1 Hours

Oral

LD50 Rat 1530 mg/kg 1.7 ml/100g

Causes severe skin burns and eye damage. Skin corrosion/irritation:

Serious eye damage/eye Causes serious eye damage.

Irritation:

Respiratory sensitization: Not a respiratory sensitizer. Skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Non-hazardous by WHMIS/OSHA criteria. Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria.

IARC Monographs. Overall Evaluation of Carcinogenicity

d-Limonene (CAS 5989-27-5) Volume 73 - 3 Not classifiable as to carcinogenicity to humans.

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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects. Non-

hazardous by WHMIS/OSHA criteria.

Non-hazardous by WHMIS/OSHA criteria. Teratogenicity: Not classified.

Specific target organ

toxicity -

single exposure:

Specific target organ

Not classified.

toxicity -

repeated exposure:

Aspiration hazard: Material does not present an aspiration hazard.

Chronic effects: Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity See below

Test Results Ecotoxicological data **Species**

Components

Alcohols, C12-14-secondary, ethoxylated (CAS 84133-50-6)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 3.2 - 7.2 mg/L, 96 hours

d-Limonene (CAS 5989-27-5)

Aquatic

EC50 Water flea (Daphnia pulex) 69.6 mg/L, 48 hours Crustacea

Fish LC50 Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/L, 96 hours

Phosphoric acid (CAS 7664-38-2)

Aquatic Acute

LC50 Crustacea 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

Mobility in soil: No 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: Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other

bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent

than regional or national requirements.

Hazardous waste code D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and

the waste disposal company.

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

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

handling site for recycling or disposal.





14. TRANSPORT INFORMATION

DOT

UN number: UN 3264

Proper shipping name: Corrosive liquid, acidic,

> inorganic, n.o.s. (Phosphoric Acid)

Hazard class(es): Ш Packing group:

Marine Pollutant: IMDG Regulated Marine Pollutant.

Special precautions: IB3, T7, TP1, TP28

Packaging exceptions: 154 Packaging Non Bulk: 203 Packaging Bulk 241

15. REGULATORY INFORMATION

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

REGULATIONS Standard, 29 CFR 1910.1200.

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)

Hazard Categories

Not regulated.

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

Not regulated.

Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No

Pressure Hazard - No Reactivity Hazard - No

CERCLA Hazardous Substance List (40 CFR 302.4)

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Phosphoric acid (CAS 7664-38-2) Not regulated.

Superfund Amendments and Reauthorization Act of 1986

(SARA)

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

Not regulated. SARA 313 (TRI reporting)

US STATE

REGULATIONS

US - California Hazardous Substances (Director's):

Phosphoric acid (CAS 7664-38-2) Listed

US - Illinois Chemical Safety Act: Listed substance

Listed Phosphoric acid (CAS 7664-38-2)

US - Louisiana Spill Reporting: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed

US - Minnesota Haz Subs: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed

US - New Jersey RTK - Substances: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed

US - Texas Effects Screening Levels: Listed substance

Alcohols, C12-14-secondary, ethoxylated Listed

(CAS 84133-50-6)

Listed d-Limonene (CAS 5989-27-5) Glucopyranose, oligomeric, decyl octyl Listed

glycosides (CAS 68515-73-1)

Listed Phosphoric acid (CAS 7664-38-2)

US. Massachusetts RTK - Substance List

Phosphoric acid (CAS 7664-38-2) Listed

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

Listed







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

Phosphoric acid (CAS 7664-38-2) Listed

US. Rhode Island RTK

Phosphoric acid (CAS 7664-38-2) Listed

US. California Proposition 65

Not listed.

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) Inventory Yes

16. OTHER INFORMATION

HMIS Ratings: Health – 3

Flammability – 0

Reactivity – 0



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 is set forth on the labeling and the SDS.

SDS preparation date: June 16, 2017 Replaces MSDS dated: April 18, 2017

Changes since last Section 2, Hazard Identification

revision: Section 4, First Aid Measures Version: 3



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