

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

Mineral-XX

POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Mineral-XX **Product Code:** 10074

Product Use: Acid Cleaner - Removes Heavy Mineral Deposits From Apples

Product For Agriculture Use Only

Restrictions:

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)

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, CORROSIVE Category 1 Skin irritation, Category 1 Eye irritation, Category 1

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.

Precautionary Statements: Prevention Statements:

P234 Keep only in original container. P260 Do not breathe mist, vapor, or spray. P264 Wash hands thoroughly after handling.

P280 Wear impermeable clothing, safety goggles or face shield and

chemical resistant gloves.

P390 Absorb spillage to prevent material damage.

Response Statements:

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.

P304/340 IF INHALED: Remove person 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. 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.

Other Hazards: None known. Hazard(s) not otherwise classified

(HNOC):

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS# Concentration (w/w %)

7664-38-2 Phosphoric Acid 26 % Other ingredients* Balance 74 %

*Other Ingredients not identified are trade secrets and non-hazardous.







FIRST AID MEASURES

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

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

contaminated clothing before reuse.

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

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

POISON CENTER/doctor for medical advice.

If Swallowed: Rinse mouth. Call a poison control center or doctor for treatment advice. Do not induce vomiting

unless told to do so by a poison control center or doctor. Do not give anything by mouth to an

unconscious person.

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, and

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

Most important Symptoms / 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.

effects, acute

and delayed

Indication of any immediate medical attention and special treatment

Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

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

Water spray may be used to keep fire exposed containers cool.

Unsuitable Extinguishing

Media:

needed:

Special Hazards Arising from

the Chemical:

Special protective equipment

and precautions for

firefighters:

During fire, gases hazardous to health may be formed.

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.

Fire-fighting

equipment/instructions:

Specific methods:

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

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. Wear appropriate protective equipment and clothing during cleanup. 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 cleaning up

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.

Environmental precautions

DO NOT discharge effluent containing this product into sewer systems, lakes,

streams, ponds, estuaries, oceans or other waters.





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, vapor, or spray. Keep container upright to prevent leakage.

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

Wash thoroughly after handling.

Eating, drinking and smoking in work areas is prohibited.

Absorb spillage to prevent material damage.

Conditions for safe

Store locked up. Store in original tightly closed container. Store in a cool, dry, well-ventilated area.

storage, including any incompatibilities

Store in a corrosion resistant container with a resistant inner liner.

Store away from incompatible materials (see Section 10 of the SDS). Do not contaminate water, food, or feed by storage or disposal.

Keep out of reach of children.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

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** Phosphoric Acid CAS# 7664-38-2 STEL 3 mg/m3 1 mg/m3 **TWA** US. NIOSH: Pocket Guide to Chemical Hazards

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

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

Exposure guidelines See above

Good general ventilation (typically 10 air changes per hour) should Appropriate engineering controls 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 chemical goggles or face shield. Eye fountain and washing facilities Eye/face protection

should be available.

Skin protection Hand protection Impervious gloves. Confirm with reputable supplier first.

Use of an impervious apron is recommended. Other

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

respirator. A NIOSH-approved respirator with acid gas filters may be used in

misty environments without proper ventilation.

Thermal hazards 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: Liquid Upper/lower flammability or Not available

explosive limits: Appearance: Colorless - Clear Vapor pressure: Not available Odor: Odorless Vapor density: (air =1) Not available

Odor threshold: Not available Specific Gravity: (H₂O = 1) 1.16

Solubility: Miscible with water pH: .26 Partition coefficient Not available Not available

Melting/Freezing point: (n-octanol-water): **Pour Point:** Not available Auto-ignition temperature: Not available

Initial boiling point and 212°F (100°C) **Decomposition temperature:** boiling range:

> 200°F (93°C)

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

Not available



Mineral-XX

10. STABILITY & REACTIVITY

Reactivity hazards: Reacts violently with alkaline material. This product may react with reducing

agents. Reacts with soft metals producing flammable hydrogen gas. This

product may react with strong oxidizing agents.

Possibility of hazardous

Incompatible materials:

reactions:

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid: Do not mix with other chemicals.

Chlorine reacts violently in the presence of acids. Do not add chlorine to submersion tanks containing this product. Bases. Oxidizers. Reducing

agents. Metals.

Hazardous decomposition

products:

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

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.

irritation:

Eye damage / Causes serious eye damage.

irritation:

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

physical, chemical and membranes.

toxicological characteristics

Information on toxicological effects

Acute toxicity May cause severe skin burns and eye damage.

Components Species Test Results

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/100q

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

Serious eye damage/eye Causes serious eye damage.

Irritation:

Respiratory sensitization: Not a respiratory sensitizer.

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

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

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.

Teratogenicity: Non-hazardous by WHMIS/OSHA criteria.

Specific target organ

Not classified.

toxicity -

single exposure:

Specific target organ

Not classified.

toxicity -

repeated exposure:

Aspiration hazard: Not classified.

Chronic effects: Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION





See below **Ecotoxicity**

Ecotoxicological data

Components **Species Test Results**

Phosphoric acid (CAS 7664-38-2)

Aquatic Acute

Crustacea LC50 Water flea (Daphnia magna) 4.6 mg/L, 12 hr LC50 Mosquitofish (Gambusia affinis affinis) Fish 3 - 3.5 mg/L, 96 hr No data is available on the degradability of this product.

Persistence/ degradability: 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 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

DOT

UN number: UN 1805

Corrosive liquid, n.o.s. (Phosphoric Proper shipping name:

acid solution)

Hazard class(es): Packing group: Ш

Marine Pollutant: IMDG Regulated Marine Pollutant.

Special provisions: A7, IB3, N34, T4, TP1

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

Standard. 29 CFR 1910.1200. REGULATIONS

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

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

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

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

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

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

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 listed.

Superfund Amendments and Reauthorization Act of 1986

(SARA)

Hazard Categories Immediate Hazard - Yes Delayed Hazard - No

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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





Not regulated



SAPA 313 (TPI reporting)

SARA 313 (TRI reporting)		not regulated.	
US STATE REGULATIONS			
US - California Hazardous Substances (Director's):			
1	Phosphoric acid (CAS 7664-38-2)	Listed.	
US - Illinois Chemical Safety Act:			
1	Phosphoric acid (CAS 7664-38-2)	Listed.	
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			
	Phosphoric acid (CAS 7664-38-2)	Listed.	
US. Massachusetts RTK - Substance List			
	Phosphoric acid (CAS 7664-38-2)	Listed.	
US. Pennsylvania RTK - Hazardous Substances			
	Phosphoric acid (CAS 7664-38-2)	Listed.	
US. Rhode Island RTK			
	Phosphoric acid (CAS 7664-38-2)	Listed.	

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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

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

16. OTHER INFORMATION

HMIS Ratings:

Health – 3

Flammability – 0

Reactivity – 0

NFPA Ratings:



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 M SDS dated: May 12, 2017

Version No. 3

Changes since last revision: Section 4, First Aid Measures, 5 Fire Fighting Measures, 12 Ecological Info.