

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Field Clean
Product Code: 10051
Product Use: All Purpose Alkaline Fruit Cleaner
Product Restrictions: For Agriculture Use Only
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)

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 1A
Eye irritation, Category 1

Hazard Symbols:



Signal Word:

Danger

Hazard Statements:

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

Other Hazards:

Hazard(s) not otherwise classified (HNOC):

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 impermeable clothing, safety goggles or face shield and chemical resistant gloves.

Response Statements:

P390 Absorb spillage to prevent material damage.
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 liner.
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>	<u>Concentration (w/w %)</u>
Potassium Hydroxide	1310-58-3	6.7 %
Sodium Tripolyphosphate	7758-29-4	5.0 %
Sodium Naphthalenesulfonate	532-02-5	3.6%
Methyloxirane, polymer with oxirane, mono-C10-16-alkyl ethers, phosphates	68649-29-6	3.0%
Sodium alkylbenzene sulfonate	68411-30-3	1.2%
Other ingredients*	Balance	80.5%

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



4. 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 contaminated clothing. Wash skin with plenty of soap and water/shower. Wash contaminated clothing before reuse.
If in Eyes:	Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Immediately call a POISON CENTER or doctor for medical advice.
If Swallowed:	Rinse mouth. 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.
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.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water fog. Foam. Dry chemical powder. Carbon dioxide.
Unsuitable Extinguishing Media:	Not available.
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.
Fire-fighting equipment/instructions:	Move containers from fire area if you can do so without risk.
Hazardous combustion products:	May include and are not limited to: Oxides of carbon. Oxides of phosphorus. 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. 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: Containment / Clean-Up Methods:	Do not allow product to enter sewers, lakes, streams or other bodies of water. 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 Safe Handling: Use good industrial hygiene practices in handling this material.
DO NOT get in eyes, on skin or clothing.
Do not breathe mists, vapors, or spray.
Keep container tightly closed.
Wear appropriate personal protective equipment (see Section 8 of the SDS).
Wash thoroughly after handling.
When using do not eat, drink or smoke.

Conditions for Safe Storage, including any Incompatibilities: Keep in original container. Store in locked location.
Store in a cool, dry, well-ventilated place.
Store in a corrosion resistant container with a resistant inner liner.
Store away from incompatible materials (see Section 10 of the SDS).
Keep container upright to prevent leakage and release into environment.
Absorb spillage to prevent material damage.
Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

US. ACGIH Threshold Limit Values

Components	Type	Value
Potassium hydroxide CAS# 1310-58-3	Ceiling	2 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Potassium hydroxide CAS# 1310-58-3	TWA	2 mg/m3
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US ACGIH Threshold Limit Values: Skin designation

Naphthalene (CAS 91-20-3) Can be absorbed through the skin.

Biological limit values No biological exposure limits noted for the ingredient(s).
Exposure guidelines See above
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 fountain and washing facilities should be available.

Skin protection

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. 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 Use good industrial hygiene practices in handling this material. When using do not eat, drink, or smoke. Wash thoroughly after handling.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance / Color:	Light Amber, clear	Vapor pressure:	Not available
Odor:	odorless	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.125
pH:	14	Solubility:	miscible with water
Melting/Freezing point:	Not available	Partition coefficient (n-octanol-water):	Not available



Pour Point:	Not available	Auto-ignition temperature:	Not available
Initial boiling point and boiling range:	212°F (100°C)	Decomposition temperature:	Not available
Flash point:	Not flammable	Viscosity:	Not available
Evaporation rate:	Not available	Explosive properties:	Not explosive
Flammability (solid, gas):	Not applicable	Oxidizing properties:	Not oxidizing

10. STABILITY & REACTIVITY

Reactivity hazards:	Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive to metals. This product may react with strong oxidizing agents.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Do not mix with other chemicals.
Incompatible materials:	Acids. Oxidizing agents. Metals. Maleic anhydride.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon. Oxides of sulfur. 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 irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin corrosion / irritation:	May cause chemical burns. Harmful contact may not cause immediate pain.
Eye damage / irritation:	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	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.

Information on toxicological effects

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

Components	Species	Test Results
Methyloxirane, polymer with oxirane, mono-C10-16-alkyl ethers, phosphates (CAS 68649-29-6)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Potassium hydroxide (CAS 1310-58-3)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	388 mg/kg, ECHA 365 mg/kg, ECHA 333 mg/kg, ECHA 273 mg/kg



Sodium alkylbenzene sulfonate (CAS 68411-30-3)

Acute

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Inhalation

LC50 Not available

Oral

LD50 Rat 1080 mg/kg
404 mg/kg

Sodium Naphthalenesulfonate (CAS 532-02-5)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat 13900 mg/kg, Sigma Aldrich

Sodium tripolyphosphate (CAS 7758-29-4)

Acute

Dermal

LD50 Rabbit >4640 mg/kg, 24 Hours
7940 mg/kg, LOLI

Inhalation

LC50 Rat >0.4 mg/L, 4 Hours

Oral

LD50 Mouse 3150 mg/kg
Rat >2000 mg/kg
6340 mg/kg, ECHA
5010 mg/kg, ECHA
4750 mg/kg, ECHA
3100 mg/kg, LOLI
3000 mg/kg, ECHA
2300 mg/kg, ECHA

Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation:	Causes serious eye damage.
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:	No data available to indicate product or any components present at greater than 0.1%. Non-hazardous by WHMIS/OSHA criteria.
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 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			
Components	Species		Test Results
Potassium hydroxide (CAS 1310-58-3)			
Aquatic			
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>)	80 mg/L, 96 hours
Sodium alkylbenzene sulfonate (CAS 68411-30-3)			
Algae	IC50	Algae	9 mg/L, 72 Hours
Crustacea	EC50	Daphnia	0.63 mg/L, 48 Hours
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	3.8 - 6.6 mg/L, 96 hours
Sodium tripolyphosphate (CAS 7758-29-4)			
Aquatic			
Crustacea	EC50	Water flea (<i>Ceriodaphnia dubia</i>)	238.35 - 321.01 mg/L, 48 hours
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 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

	<u>DOT</u>
UN number:	UN 3266
Proper shipping name:	Corrosive liquid, basic, inorganic, n.o.s. (potassium hydroxide)
Hazard class(es):	8
Packing group:	III
Marine Pollutant:	Not applicable
Special precautions:	IB3, T7, TP1, TP28
Packaging exceptions:	154
Packaging Non Bulk:	203
Packaging Bulk:	241



15. REGULATORY INFORMATION

US FEDERAL REGULATIONS This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Naphthalene (CAS 91-20-3) Listed

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

Not regulated.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Naphthalene (CAS 91-20-3) Listed

Potassium hydroxide (CAS 1310-58-3) Listed

Sodium tripolyphosphate (CAS 7758-29-4) Listed

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

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

No

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

US STATE REGULATIONS

US - California Hazardous Substances (Director's):

Naphthalene (CAS 91-20-3) Listed

Potassium hydroxide (CAS 1310-58-3) Listed

Sodium tripolyphosphate (CAS 7758-29-4) Listed

US - Illinois Chemical Safety Act: Listed substance

Naphthalene (CAS 91-20-3) Listed

Potassium hydroxide (CAS 1310-58-3) Listed

Sodium tripolyphosphate (CAS 7758-29-4) Listed

US - Louisiana Spill Reporting: Listed substance

Naphthalene (CAS 91-20-3) Listed

Potassium hydroxide (CAS 1310-58-3) Listed

Sodium tripolyphosphate (CAS 7758-29-4) Listed

US - Minnesota Haz Subs: Listed substance

Naphthalene (CAS 91-20-3) Listed

Potassium hydroxide (CAS 1310-58-3) Listed

US - New Jersey RTK - Substances: Listed substance

Naphthalene (CAS 91-20-3) Listed

Potassium hydroxide (CAS 1310-58-3) Listed

US - Texas Effects Screening Levels: Listed substance

Naphthalene (CAS 91-20-3) Listed

Potassium hydroxide (CAS 1310-58-3) Listed

Sodium tripolyphosphate (CAS 7758-29-4) Listed

US. Massachusetts RTK - Substance List

Naphthalene (CAS 91-20-3) Listed

Potassium hydroxide (CAS 1310-58-3) Listed

Sodium tripolyphosphate (CAS 7758-29-4) Listed

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

Naphthalene (CAS 91-20-3) Listed



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

Naphthalene (CAS 91-20-3)	Listed
Potassium hydroxide (CAS 1310-58-3)	Listed
Sodium tripolyphosphate (CAS 7758-29-4)	Listed

US. Rhode Island RTK

Naphthalene (CAS 91-20-3)	Listed
Potassium hydroxide (CAS 1310-58-3)	Listed

US. California Proposition 65

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

Naphthalene (CAS 91-20-3)	Listed: April 19, 2002
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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 – 4

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: October 11, 2017 **Replaces MSDS dated:** May 26, 2015

Changes since last revision: Several changes in all sections. **Version:** 2

