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

Wax Strip Plus

POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Wax Strip Plus
Product Code: 10468
Product Use: High Performance Fruit Coating Remover for Equipment
Product Restrictions: 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 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 fume, mist, 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.
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 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.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration (w/w %)
C6-C12 alkyl alcohol ethoxylate phosphoric acid	68921-24-4	1.0 – 5.0 %*
Distillates (petroleum), light hydrotreated	64742-47-8	3.0 – 7.0 %*
Ethanol, 2-butoxy-	111-76-2	1.0 – 5.0 %*
Nonyl phenoxy polyethoxy ethanol, branched	68412-54-4	1.0 – 5.0 %*
Nonylphenol polyethylene glycol ether	127087-87-0	5.0 – 10.0 %*
Potassium Hydroxide	1310-58-3	1.0 – 5.0 %*
Sodium Hydroxide	1310-73-2	0.5 – 1.5 %*
Sodium Metasilicate	6834-92-0	1.0 – 5.0 %*
Tetrapotassium pyrophosphate	7320-34-5	0.5 – 1.5 %*
Other Ingredients*	Balance	

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments *US GHS: The exact percentage (concentration) of composition has been withheld as a trade 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 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 contaminated clothing. Wash skin with plenty of soap and water/shower. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.

If in Eyes: Hold eye open and rinse cautiously and gently with water for 15 – 20 minutes. Remove contact lenses, after the first 5 minutes if present and easy to do. Continue rinsing eye. Immediately call a POISON CENTER/doctor for medical advice/attention.

If Swallowed: Rinse mouth, DO NOT induce vomiting. Immediately call a POISON CENTER/doctor for medical advice/attention.

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 / 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: Not flammable. Use any means suitable for extinguishing surrounding fire. Treat for surrounding material.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Firefighters should wear full protective clothing including self-contained breathing apparatus

Fire-fighting 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.

General fire hazards: No unusual fire or explosion hazards noted.

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 cleaning up	Stop leak if you can do so without risk. Dike the spilled material, where this is possible. 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 into lakes, streams, ponds or public waters.

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. Use only with adequate ventilation. Do not breathe mist or vapor. Keep container tightly closed. Wear appropriate personal protective equipment. Wash thoroughly after handling. When using, do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in a cool, dry, well-ventilated place, away from direct sunlight. Store in a corrosion resistant container with a resistant inner liner. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Components	Type	Value
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	PEL	400 mg/m3 100 ppm
Ethanol, 2-butoxy- (CAS 111-76-2)	PEL	240 mg/m3 50 ppm
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	20 ppm
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	100 mg/m3
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	24 mg/m3 5 ppm
Potassium hydroxide (CAS 1310-58-3)	TWA	2 mg/m3
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Ethanol, 2-butoxy- (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

* - For sampling details, please see the source document.

US ACGIH Threshold Limit Values: Skin designation

1,4-Dioxane (CAS 123-91-1)	Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Ethanol, 2-butoxy- (CAS 111-76-2)	Can be absorbed through the skin.

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

1,4-Dioxane (CAS 123-91-1)	Can be absorbed through the skin.
Ethanol, 2-butoxy- (CAS 111-76-2)	Can be absorbed through the skin.

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 chemical goggles or face shield.
Skin protection	
Hand protection:	Impervious gloves. Confirm with reputable supplier first.
Other:	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. As required by employer code.
Respiratory protection:	Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
Thermal hazards:	Not applicable.
General hygiene considerations:	Use good industrial hygiene practices in handling this material. When using do not eat, drink or smoke.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	**Upper/Lower flammability limits:**	Not available
Appearance / Color:	Light yellow, clear	**Vapor pressure:**	Not available
Odor:	Detergent	**Vapor density: (air =1)**	Not available
Odor threshold:	Not available	**Specific Gravity: (H_2O = 1)**	1.055
pH:	13.55	**Solubility:**	Miscible in 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:	201.2°F (94°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:	Strong oxidizing agents. Metals.
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:	Strong acids. Strong oxidizing agents. Metals.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon. Oxides of phosphorus. Oxides of sodium.

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.
Skin contact	May cause chemical burns. Harmful contact may not cause immediate pain.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics:	Contact with this material may cause burns to the skin, eyes and mucous membranes.

Information on toxicological effects

Acute toxicity In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful in contact with skin. May cause respiratory irritation.

Components	Species	Test Results
C6-C12 alkyl alcohol ethoxylate phosphoric acid (CAS 68921-24-4)		
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	3950 mg/kg
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)		
Acute		
Dermal		
LD50	Rabbit	>4000 mg/kg, 24 Hours, ECHA >2000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Cat	>6.4 mg/L, 6 Hours, ECHA
	Rat	>7.5 mg/L, 6 Hours, ECHA >6 mg/L, 4 Hours, ECHA >5.7 mg/L, 4 Hours, ECHA >5.3 mg/L, 4 Hours, ECHA >5.3 mg/L, 4 Hours, ECHA >5.2 mg/L, 4 Hours, ECHA >4.6 mg/L, 4 Hours, ECHA >4.5 mg/L, 4 Hours, ECHA >4.3 mg/L, 4 Hours, ECHA >0.1 mg/L, 8 Hours, ECHA 5.2 mg/l/4h, LOLI
Oral		
LD50	Rat	> 20000 mg/kg, ECHA > 25 ml/kg, HSDB
Ethanol, 2-butoxy- (CAS 111-76-2)		
Acute		
Dermal		
LD50	Guinea pig	7.3 ml/kg, 4 Days, ECHA 0.3 ml/kg, 24 Hours, ECHA 0.2 ml/kg, 24 Hours, ECHA
	Rabbit	> 2000 mg/kg, 24 Hours, ECHA 1060 mg/kg, 24 Hours, ECHA 841 mg/kg, 24 Hours, ECHA 667 mg/kg, 24 Hours, ECHA 560 ml/kg, 24 Hours, ECHA 450 ml/kg, 24 Hours, ECHA 435 mg/kg, 24 Hours, ECHA 400 mg/kg, HSDB 0.7 ml/kg, 24 Hours, ECHA 0.6 ml/kg, ECHA
	Rat	>2000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Mouse	700 mg/L, 7 Hours, HSDB 700 ppm, 7 Hours, HSDB
	Rabbit	400 ppm, 7 Hours, ECHA
	Rat	>900 ppm, ECHA >800 ppm, 4 Hours , ECHA

		900 ppm, ECHA
		800 ppm, 4 Hours, ECHA
		486 ppm, 4 Hours, ECHA
		450 ppm, 4 Hours, ECHA
Oral		
LD50	Dog	>695 mg/kg, ECHA
	Guinea pig	1414 mg/kg
		1200 mg/kg, ECHA
	Mouse	2005 mg/kg, ECHA
		1519 mg/kg
		1200 mg/kg, HSDB
	Rabbit	320 mg/kg, HMIRA
	Rat	1000 – 2000 mg/kg, ECHA
		560 – 3000 mg/kg, ECHA
		530 – 2800 mg/kg
		2600 mg/kg, ECHA
		2420 mg/kg, ECHA
		1746 mg/kg
		1480 mg/kg, ECHA
		880 mg/kg, ECHA
		615 mg/kg, ECHA

Nonyl phenoxy polyethoxy ethanol, branched (CAS 68412-54-4)

Acute		
Dermal		
LD50	Rabbit	>2000 mg/kg, ECHA
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	>15000 mg/kg, ECHA
		>2000 mg/kg, ECHA
		>15 mg/kg
		5000 mg/kg, ECHA

Nonylphenol polyethylene glycol ether (CAS 127087-87-0)

Acute		
Dermal		
LD50	Rabbit	>3000 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	>5000 mg/kg
		>15 mg/kg

Potassium hydroxide (CAS 1310-58-3)

Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	388 mg/kg, ECHA
		365 mg/kg, ECHA
		333 mg/kg, ECHA
		273 mg/kg

Sodium hydroxide (CAS 1310-73-2)

Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	

Oral		
LD50	Rabbit	325 mg/kg, ECHA
Sodium metasilicate (CAS 6834-92-0)		
Acute		
Dermal		
LD50	Rat	>5000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	>21 mg/L, 4 Hours
Oral		
LD50	Mouse	770 – 820 mg/kg, ECHA 666.7 – 1008.6 mg/kg, ECHA 2400 mg/kg, Patty's Industrial Hygiene and Toxicology 770 – 820 mg/kg, ECHA 666.7 – 1008.6 mg/kg, ECHA 661.5 – 896.3 mg/kg
	Rat	1189.6 – 1530 mg/kg, ECHA 1152 – 1347 mg/kg, ECHA 1280 mg/kg, Patty's Industrial Hygiene and Toxicology 1189.6 – 1530 mg/kg, ECHA 1152 – 1349 mg/kg, ECHA 994.7 – 1335.9 mg/kg
Tetrapotassium pyrophosphate (CAS 7320-34-5)		
Acute		
Dermal		
LD50	Rabbit	>4640 mg/kg, RTECS >2000 mg/kg, 24 Hours, ECHA
	Rat	>2000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	>1.1 mg/L, 4 Hours, ECHA >0.6 mg/L, 4 Hours, ECHA
Oral		
LD50	Rat	300 - 2000 mg/kg 2440 mg/kg, ECHA

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

Serious eye damage/eye irritation: Causes serious eye damage.

Respiratory sensitization:

ACGIH sensitization This product is not a respiratory sensitization.

Formaldehyde (CAS 50-00-0) Dermal sensitization

Respiratory sensitization

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

Mutagenicity: Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity: See below

ACGIH Carcinogens:

1,4-Dioxane (CAS 123-91-1)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Acetaldehyde (CAS 75-07-0)	A2 Suspected human carcinogen.
Ethanol, 2-butoxy- (CAS 111-76-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Ethylene oxide (CAS 75-21-8)	A2 Suspected human carcinogen.
Formaldehyde (CAS 50-00-0)	A1 Confirmed human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity:

1,4-Dioxane (CAS 123-91-1)	Volume 11, Supplement 7, Volume 71 - 2B Possibly carcinogenic to humans.
Acetaldehyde (CAS 75-07-0)	Volume 36, Supplement 7, Volume 71 - 2B Possibly carcinogenic to humans.
Ethanol, 2-butoxy- (CAS 111-76-2)	Volume 88 - 3 Not classifiable as to carcinogenicity to humans.
Ethylene oxide (CAS 75-21-8)	Volume 97, Volume 100F 1 Carcinogenic to humans.
Formaldehyde (CAS 50-00-0)	Volume 88, Volume 100F 1 Carcinogenic to humans.

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

1,4-Dioxane (CAS 123-91-1)

Acetaldehyde (CAS 75-07-0)

Ethylene oxide (CAS 75-21-8)

Formaldehyde (CAS 50-00-0)

US NTP Report on Carcinogens: Anticipated carcinogen:

1,4-Dioxane (CAS 123-91-1)	Reasonably Anticipated to be a Human Carcinogen.
Acetaldehyde (CAS 75-07-0)	Reasonably Anticipated to be a Human Carcinogen.

US NTP Report on Carcinogens: Known carcinogen:

Ethylene oxide (CAS 75-21-8)	Known To Be Human Carcinogen.
Formaldehyde (CAS 50-00-0)	Known To Be Human Carcinogen.

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

Ethylene oxide (CAS 75-21-8)	Cancer
Formaldehyde (CAS 50-00-0)	Cancer

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 available.
Specific target organ toxicity - repeated exposure:	Not classified.
Aspiration hazard:	Not classified.
Chronic effects:	Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity — See below — **Ecotoxicity**

Ecotoxicological data		**Species**	**Test Results**
Components			
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 – 5.1 mg/L, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	2.9 mg/L, 96 hours
Ethanol, 2-butoxy- (CAS 111-76-2)			
Aquatic			
Crustacea	EC50	Daphnia	1819 mg/L, 48 hours
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/L, 96 hours
Potassium hydroxide (CAS 1310-58-3)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	80 mg/L, 96 hours
Sodium hydroxide (CAS 1310-73-2)			
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/L, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	125 mg/L, 96 hours
Sodium metasilicate (CAS 6834-92-0)			
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.28 - 0.57 mg/L, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	1800 mg/L, 96 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 methods:	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]
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 3266
Proper shipping name:	Corrosive liquid, basic, inorganic, n.o.s. (Sodium metasilicate)
Hazard class(es):	8
Packing group:	II
Marine Pollutant:	Not applicable
Special provisions:	386, B2, IB2, T11, TP2, TP27
Packaging non bulk:	202
Packaging bulk:	242

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

1,4-Dioxane (CAS 123-91-1)
Acetaldehyde (CAS 75-07-0)
Ethylene glycol (CAS 107-21-1)
Ethylene oxide (CAS 75-21-8)
Formaldehyde (CAS 50-00-0)

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

Acetaldehyde (CAS 75-07-0)
Ethylene oxide (CAS 75-21-8)
Formaldehyde (CAS 50-00-0)

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

Acetaldehyde (CAS 75-07-0)	0.1 % One-Time Export Notification only.

TSCA Chemical Action Plans, Chemicals of Concern

Nonyl phenoxy polyethoxy ethanol, branched (CAS 68412-54-4)	Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan
Nonylphenol polyethylene glycol ether (CAS 127087-87-0)	Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan

CERCLA Hazardous Substance List (40 CFR 302.4)

1,4-Dioxane (CAS 123-91-1)	Listed.
Acetaldehyde (CAS 75-07-0)	Listed.
Ethanol, 2-butoxy- (CAS 111-76-2)	Listed.
Ethylene glycol (CAS 107-21-1)	Listed.
Ethylene oxide (CAS 75-21-8)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
Potassium hydroxide (CAS 1310-58-3)	Listed.
Sodium hydroxide (CAS 1310-73-2)	Listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

Ethylene oxide (CAS 75-21-8)	10 LBS
Formaldehyde (CAS 50-00-0)	100 LBS

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

Ethylene oxide (CAS 75-21-8)	Cancer
Formaldehyde (CAS 50-00-0)	Cancer
Ethylene oxide (CAS 75-21-8)	Reproductive toxicity
Formaldehyde (CAS 50-00-0)	Skin sensitization
Ethylene oxide (CAS 75-21-8)	Mutagenicity
Formaldehyde (CAS 50-00-0)	Respiratory sensitization
Ethylene oxide (CAS 75-21-8)	Central nervous system
Formaldehyde (CAS 50-00-0)	Eye irritation
Ethylene oxide (CAS 75-21-8)	Skin sensitization
Formaldehyde (CAS 50-00-0)	Skin irritation
Ethylene oxide (CAS 75-21-8)	Skin irritation
Formaldehyde (CAS 50-00-0)	Respiratory tract irritation
Ethylene oxide (CAS 75-21-8)	Eye irritation
Formaldehyde (CAS 50-00-0)	Acute toxicity
Ethylene oxide (CAS 75-21-8)	Respiratory tract irritation
Formaldehyde (CAS 50-00-0)	Flammability
Ethylene oxide (CAS 75-21-8)	Acute toxicity
	Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)	Hazard Categories	Immediate Hazard - Yes Delayed Hazard - Yes 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)

Chemical name	CAS number	% by wt.
1,4-Dioxane (CAS 123-91-1)	123-91-1	<0.1
Acetaldehyde (CAS 75-07-0)	75-07-0	<0.1
Ethylene oxide (CAS 75-21-8)	75-21-8	<0.1
Formaldehyde (CAS 50-00-0)	50-00-0	<0.1
Ethanol, 2-butoxy- (CAS 111-76-2)	111-76-2	1-5*

US STATE REGULATIONS

US - California Hazardous Substances (Director's):

1,4-Dioxane (CAS 123-91-1)	Listed
Acetaldehyde (CAS 75-07-0)	Listed
Distillate (petroleum), light hydrotreated (CAS 64742-47-8)	Listed
Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
Ethylene glycol (CAS 107-21-1)	Listed
Ethylene oxide (CAS 75-21-8)	Listed
Formaldehyde (CAS 50-00-0)	Listed
Potassium hydroxide (CAS 1310-58-3)	Listed
Sodium hydroxide (CAS 1310-73-2)	Listed

US - Illinois Chemical Safety Act: Listed substance

1,4-Dioxane (CAS 123-91-1)	Listed
Acetaldehyde (CAS 75-07-0)	Listed
Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
Ethylene glycol (CAS 107-21-1)	Listed
Ethylene oxide (CAS 75-21-8)	Listed
Formaldehyde (CAS 50-00-0)	Listed
Potassium hydroxide (CAS 1310-58-3)	Listed
Sodium hydroxide (CAS 1310-73-2)	Listed

US - Louisiana Spill Reporting: Listed substance

1,4-Dioxane (CAS 123-91-1)	Listed
Acetaldehyde (CAS 75-07-0)	Listed
Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
Ethylene glycol (CAS 107-21-1)	Listed

	Ethylene oxide (CAS 75-21-8)	Listed
	Formaldehyde (CAS 50-00-0)	Listed
	Potassium hydroxide (CAS 1310-58-3)	Listed
	Sodium hydroxide (CAS 1310-73-2)	Listed
US - Minnesota Haz Subs: Listed substance		
	1,4-Dioxane (CAS 123-91-1)	Listed
	Acetaldehyde (CAS 75-07-0)	Listed
	Distillate (petroleum), light hydrotreated (CAS 64742-47-8)	Listed
	Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
	Ethylene glycol (CAS 107-21-1)	Listed
	Ethylene oxide (CAS 75-21-8)	Listed
	Formaldehyde (CAS 50-00-0)	Listed
	Potassium hydroxide (CAS 1310-58-3)	Listed
	Sodium hydroxide (CAS 1310-73-2)	Listed
US - New Jersey RTK - Substances: Listed substance		
	1,4-Dioxane (CAS 123-91-1)	Listed
	Acetaldehyde (CAS 75-07-0)	Listed
	Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
	Ethylene glycol (CAS 107-21-1)	Listed
	Ethylene oxide (CAS 75-21-8)	Listed
	Formaldehyde (CAS 50-00-0)	Listed
	Potassium hydroxide (CAS 1310-58-3)	Listed
	Sodium hydroxide (CAS 1310-73-2)	Listed
US - North Carolina Toxic Air Pollutants: Listed substance		
	1,4-Dioxane (CAS 123-91-1)	Listed
	Acetaldehyde (CAS 75-07-0)	Listed
	Ethylene oxide (CAS 75-21-8)	Listed
	Formaldehyde (CAS 50-00-0)	Listed
US - Pennsylvania RTK - Hazardous Substances: Special hazard		
	1,4-Dioxane (CAS 123-91-1)	Listed
	Ethylene oxide (CAS 75-21-8)	Listed
	Formaldehyde (CAS 50-00-0)	Listed
US - Texas Effects Screening Levels: Listed substance		
	1,4-Dioxane (CAS 123-91-1)	Listed
	Acetaldehyde (CAS 75-07-0)	Listed
	Distillate (petroleum), light hydrotreated (CAS 64742-47-8)	Listed
	Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
	Ethylene glycol (CAS 107-21-1)	Listed
	Ethylene oxide (CAS 75-21-8)	Listed
	Formaldehyde (CAS 50-00-0)	Listed
	Nonyl phenoxy polyethoxy ethanol, branched (CAS 68412-54-4)	Listed
	Nonylphenol polyethylene glycol ether (CAS 127087-87-0)	Listed
	Potassium hydroxide (CAS 1310-58-3)	Listed
	Sodium hydroxide (CAS 1310-73-2)	Listed
	Sodium metasilicate (CAS 6834-92-0)	Listed
	Tetrapotassium pyrophosphate (CAS 7320-34-5)	Listed
US - Washington Chemical of High Concern to Children: Listed substance		
	1,4-Dioxane (CAS 123-91-1)	Listed
	Acetaldehyde (CAS 75-07-0)	Listed
	Ethylene glycol (CAS 107-21-1)	Listed
	Formaldehyde (CAS 50-00-0)	Listed
US. Massachusetts RTK - Substance List		
	1,4-Dioxane (CAS 123-91-1)	Listed
	Acetaldehyde (CAS 75-07-0)	Listed
	Distillate (petroleum), light hydrotreated (CAS 64742-47-8)	Listed
	Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
	Ethylene glycol (CAS 107-21-1)	Listed
	Ethylene oxide (CAS 75-21-8)	Listed
	Formaldehyde (CAS 50-00-0)	Listed
	Potassium hydroxide (CAS 1310-58-3)	Listed
	Sodium hydroxide (CAS 1310-73-2)	Listed
US. New Jersey Worker and Community Right-to-Know Act		
	1,4-Dioxane (CAS 123-91-1)	Listed
	Acetaldehyde (CAS 75-07-0)	Listed
	Distillate (petroleum), light hydrotreated (CAS 64742-47-8)	Listed

Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
Ethylene glycol (CAS 107-21-1)	Listed
Ethylene oxide (CAS 75-21-8)	Listed
Formaldehyde (CAS 50-00-0)	Listed

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

1,4-Dioxane (CAS 123-91-1)	Listed
Acetaldehyde (CAS 75-07-0)	Listed
Distillate (petroleum), light hydrotreated (CAS 64742-47-8)	Listed
Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
Ethylene glycol (CAS 107-21-1)	Listed
Ethylene oxide (CAS 75-21-8)	Listed
Formaldehyde (CAS 50-00-0)	Listed
Potassium hydroxide (CAS 1310-58-3)	Listed
Sodium hydroxide (CAS 1310-73-2)	Listed

US. Rhode Island RTK

1,4-Dioxane (CAS 123-91-1)	Listed
Acetaldehyde (CAS 75-07-0)	Listed
Ethanol, 2-butoxy- (CAS 111-76-2)	Listed
Ethylene glycol (CAS 107-21-1)	Listed
Ethylene oxide (CAS 75-21-8)	Listed
Formaldehyde (CAS 50-00-0)	Listed
Potassium hydroxide (CAS 1310-58-3)	Listed
Sodium hydroxide (CAS 1310-73-2)	Listed

US. California Proposition 65

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

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

1,4-Dioxane (CAS 123-91-1)	Listed: January 1, 1988
Acetaldehyde (CAS 75-07-0)	Listed: April 1, 1988
Ethylene oxide (CAS 75-21-8)	Listed: July 1, 1987
Formaldehyde (CAS 50-00-0)	Listed: January 1, 1988

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

Ethylene glycol (CAS 107-21-1)	Listed: June 19, 2015
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)	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:	May 1, 2019	**Replaces MSDS dated:**	May 26, 2015
Changes since last revision:	Several changes made through out SDS	**Version**: 2	