

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

Biox[®]-40EC Line Spray

POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Biox[®] -40EC Line Spray EPA Exempt 25(b) Product Code: 10329 Potato Sprout Control Product Use: Product Restrictions: For Agriculture 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)

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, Flammable liquid, Category 3 – Combustible liquid Health Hazards Skin corrosion / irritation, Category 2 Serious eye damage / eye irritation, Category 2 Skin Sensitization, Category 1 Specific Target Organ Toxicity –single exposure, Category 3 respiratory tract

irritation Aspiration Hazard, Category 1

Hazard Symbols:



Signal Word: DANGER

Hazard Statements:

H226 Flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. H335 May cause respiratory irritation. Precautionary Statements: Prevention Statements:

P210 Keep away from heat / hot surfaces / sparks / open flames / and other ignition sources. No smoking

P233 Keep container tightly closed

P240 Ground/Bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / lighting / and process equipment.

P242 Use non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash hands thoroughly after handling.

P280 Wear protective clothing, chemical resistant gloves, and safety glasses. Fogging applicators must wear a NIOSH-approved full-face respirator with organic vapor filter.

P261 Avoid breathing fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

Response Statements:

P370/378 In case of fire: Use dry chemical, CO₂ to extinguish. P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P333/313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatments see Section 4 First Aid Measures on SDS. P362/364 Take off contaminated clothing and wash it before reuse. P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337/313 If eye irritation persists: Get medical advice/attention. P304/340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell. P301/310 IF SWALLOWED: Immediately call a POISON CENTER/doctor for treatment advice.

P331 Do NOT induce vomiting.

Storage Statements:

P403/233/235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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.

Other Hazards: Hazard(s) not otherwise classified (HNOC):

None known.







	Supplemental information	The product is exempt from FIFRA regulation under and is considered a minimum risk pesticide.	40 CFR 152.25(f)		
3.	Ingredient Glycerol Isopropanol Oils, clove	CAS # Concentration (v) 56-81-5 10 - 30%* 67-63-0 5 - 10%* 8000-34-8 30 - 60%*			
	Composition comments:	by weight unless ingredient is a gas. Gas concentrations are in *US GHS: The exact percentage (concentration) of composition withheld as a trade secret in accordance with paragraph (i) of	on has been		
4.	FIRST AID MEASU	FIRST AID MEASURES			
	General Advice:	Have the product container, label or Safety Data Sheet with yo poison control center or physician, or going for treatment. You PROPHARMA (PROSAR) 1-888-271-4649 for emergency me information.	may also contact dical treatment		
	Skin contact:	IF ON SKIN (or hair): Take off immediately all contaminated cl with plenty of soap and water/shower for 15 – 20 minutes. If sl occurs: Get medical advice/attention. Wash contaminated clo	kin irritation or rash		
	Eye contact:	 IF IN EYES: Hold eye open and cautiously rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses if present and easy to do after the first 5 minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor for medical 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. 			
	Ingestion:				
	Inhalation:	IF INHALED: Remove person to fresh air and keep comfortab person is not breathing, call 911 or an ambulance, and then gi respiration, preferably mouth-to-mouth, if possible. Call a POIS CENTER/doctor if you feel unwell.	ive artificial		
	Most important	Aspiration may cause pulmonary oedema and pneumonitis. S	•		
	Symptoms / effects, acute and	Symptoms may include stinging, tearing, redness, swelling, ar May cause respiratory irritation. Skin irritation., May cause red			
	Delayed:	May cause an allergic skin reaction. Dermatitis. Rash.			
	Indication of any immediate medical attention and special treatment needed:	Provide general supportive measures and treat symptomatica be delayed.	lly. Symptoms may		

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.
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.
Hazardous combustion products:	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
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.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	Flammable liguid and vapor.



6. ACCIDENTAL RELEASE MEASURES

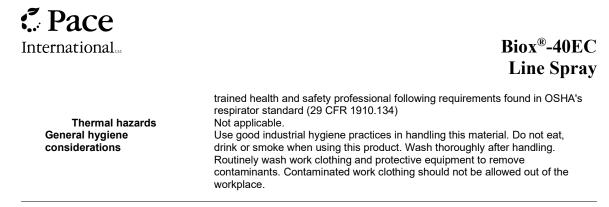
	Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of
	protective equipment and emergency procedures:	spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled
		material unless wearing appropriate protective clothing. Ensure adequate
		ventilation. Local authorities should be advised if significant spillages cannot be
	Methods and materials for	contained. For personal protection, see section 8 of the SDS. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled
	containment and cleaning up:	material, where this is possible. Absorb in vermiculite, dry sand or earth and
		place into containers. 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.
		Never return spills to original containers for re-use. For waste disposal, see
		section 13 of the SDS.
	Environmental precautions:	Avoid discharge into drains, water courses or onto the ground. For waste
		disposal, see section 13 of the SDS.
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7. HANDLING & STORAGE

Precautions for safe handling:	Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product.
Conditions for safe storage,	Store locked up. Keep container tightly closed and upright when not in use.
including any incompatibilities:	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:		OONAL II		
	US. OSHA Table Z-1 Limits for A	ir Contaminant	s (29 CFR 1910. ⁴	1000)	
	Components	Туре	Value		Form
	Glycerol (CAS 56-81-5)	PEL	5mg/m3		Respirable fraction.
			15 mg/m	3	Total dust.
	Isopropanol (CAS# 67-63-0)	PEL	980 mg/r	m3	
			400 ppm	l	
	US. ACGIH Threshold Limit Valu	es			
	Isopropanol (CAS# 67-63-0)	STEL	400 ppm	l	
		TWA	200 ppm	l	
	US. NIOSH: Pocket Guide to Che	mical Hazards			
	Isopropanol (CAS# 67-63-0)	STEI	1225 mg	/m3	
			500 ppm	l	
		TWA	980 mg/ı	m3	
			400 ppm		
	Biological limit values	See below			
	ACGIH Biological Exposure Indi				
	Components		Determinant	Specimen	Sampling Time
	Isopropanol (CAS# 67-63-0)		Acetone	Urine	*
	Appropriate engineering			lly 10 air changes p	per hour) should
	controls			d be matched to co	
		applicable use	process enclosu	res, local exhaust	ventilation or
				intain airborne lev	
				f exposure limits h	
				evels to an accepta	
	Individual protection measures,				
	Eye/face protection				Eye wash station and
	y ,		es should be avai		,
	Skin protection	0			
	Hand protection	Impervious glo	ves. Confirm with	reputable supplier	first.
	Other				equired by employer code.
	Respiratory protection				l, use an approved NIOSH
					sed under the direction of a
		·	-	-	



9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance / Color:	Yellow	Vapor pressure:	Not available
Odor:	Clove	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H ₂ O = 1)	1.01 – 1.03
pH:	8.0 - 9.0	Solubility:	Dispersible
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:	Not available	Decomposition temperature:	Not available
Flash point:	40.3° C (104.5° F)	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:	This product may react with strong oxidizing agents.
Possibility of Hazardous	No dangerous reaction known under conditions of normal use.
Reactions:	
Chemical stability:	Material is stable under normal conditions.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Do not mix with other chemicals.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Routes of exposure	Eye, Skin contac	, Inhalation, Ingestion.
Information on likely routes of	exposure	
Inhalation		n to the respiratory system.
Skin corrosion / irritation:	•	on. May cause an allergic skin reaction.
Eye damage / irritation:	Causes serious ey	e irritation.
Ingestion	• •	duct aspirated into the lungs through ingestion or vomiting us chemical pneumonia. May cause stomach distress, J.
Symptoms related to the	Aspiration may ca	use pulmonary edema and pneumonitis. Severe eye irritation.
physical, chemical and	Symptoms may in	lude stinging, tearing, redness, swelling, and blurred vision.
toxicological characteristics	May cause respira reaction. Dermatit	tory irritation. Skin irritation. May cause an allergic skin s. Rash.
Information on toxicological ef	fects	May be fatal if swallowed and enters airways.
Components	Species	Test Results
Glycerol (CAS# 56-81-5)		
Acute		
Dermal		
LD50	Guinea pig	56750 mg/kg, ECHA
Inhalation		
LC50	Rat	275000 mg/m3, 4 hours, ECHA
Oral		-
LD50	Rat	11500 mg/kg, ECHA

Isopropanol (CAS# 67-63-0) Acute Dermal LD50 Rabbit 13900 mg/kg, ECHA Inhalation 25000 mg/m3, 6 hours, ECHA LC50 Rat 16970 mg/l/4h, HMIRA Oral LD50 Rat 5840 mg/.kg, ECHA Oils, clove (CAS# 8000-34-8) Acute Dermal LD50 Rabbit 5000 mg/kg, RTECS Inhalation LC50 Not available Oral LD50 Rat 2650 mg/kg, RTECS Causes skin irritation. Skin corrosion/irritation: Exposure minutes Not available Erythema value Not available Oedema value Not available Serious eye damage/eye Causes serious eye irritation. Irritation: Corneal opacity value Not available Iris lesion value Not available **Conjunctival reddening** Not available value **Conjunctival oedema** Not available value **Recover days** Not available Respiratory sensitization: Not a respiratory sensitizer. Skin sensitization: May cause an allergic skin reaction. 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. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not listed Reproductive toxicity: This product is not expected to cause reproductive or developmental effects. Teratogenicity: Not available. Specific target organ toxicity -May cause respiratory irritation. single exposure: Specific target organ toxicity -Not classified. repeated exposure: Aspiration hazard: May be fatal if swallowed and enters airways. **12. ECOLOGICAL INFORMATION**

Ecotoxicity Ecotoxicological data		See below		
Components		Species	Test Results	
Glycerol (CAS# 56-	81-5)	-		
Aquatic				
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	51000 – 57000 mg/L, 96 hours	
Isopropanol (CAS#	67-63-0)			
Algae	IC50	Algae	1000 mg/L , 72 hours	
Crustacea	EC50	Daphnia	13299 mg/L 48 hours	
Aquatic			-	
Fish	LC50	Bluegill (Lepomis macrochirus)	>1400 mg/L, 96 hours	
Persistence/ degradability: Bioaccumulative potential Mobility in soil: Mobility in general:		No data is available on the degradability of this product. No data available. No data available. Not available.		
Other adverse effe	ects:		cts (e.g. ozone depletion, photochemical isruption, global warming potential) are	





13. DISPOSAL CONSIDERATIONS

Disposal instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal Regulations	Dispose in accordance with all applicable 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:	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.S. Department of	Classification method: Classified according to Part 2, sections 2.1-2.8 of the				
Transportation (DOT)	Regulations for the transport of dangerous goods. If applicable, the technical				
	name and product classification will appear below.				
General	US: DOT – 49 CFR 173.150 (F) – Combustible Liquid Exemption				
U.S. Department of Transporta	tion (DOT)				
Basic Shipping requireme	Basic Shipping requirements:				
UN number:	UN1993				
Proper shipping name:	Flammable liquids, n.o.s.				
Technical name:	Isopropanol				
Hazard class(es):	3				
Packing group:	III				

15. REGULATORY INFORMATION US FEDERAL REGULATIONS This product is a

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

This product is exempt from FIFRA regulation under 40 CFR 152.25(F) and is considered a minimum risk pesticide.

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

Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Isopropanol (CAS# 67-63-0) 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 SARA 311/312 Hazardous chemical Yes **Classified Hazard** Flammable (gases, aerosols, liquids, or solids) Skin corrosion or irritation Categories Serious eye damage or eye irritation. Respiratory or skin sensitization. Specific target organ toxicity (single or repeated exposure) Aspiration hazard. SARA 313 (TRI reporting) Chemical name CAS number % by wt. Isopropanol 67-63-0 5 - 10* **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

US - California Hazardous Substances (Director's): Listed substance Isopropanol (CAS# 67-63-0) Listed.





US - Illinois Chemical Safety Ac				
	Isopropanol (CAS# 67-63-0)	Listed		
US - Louisiana Spill Reporting:	Listed substance			
	Isopropanol (CAS# 67-63-0)	Listed		
US - Minnesota Haz Subs: Liste	,			
	Glycerol (CAS# 56-81-5)	Listed		
	Isopropanol (CAS# 67-63-0)	Listed		
	,	Listed		
US - Texas Effects Screening Le				
	Glycerol (CAS# 56-81-5)	Listed		
	Isopropanol (CAS# 67-63-0)	Listed		
	Oils, clove (CAS# 8000-34-8)	Listed		
US. Massachusetts RTK - Subst	ance List			
	Glycerol (CAS# 56-81-5)	Listed		
	Isopropanol (CAS# 67-63-0)	Listed		
LIC New Jarsey Werker and Co		Liotod		
US. New Jersey Worker and Community Right-to-Know Act				
	Glycerol (CAS# 56-81-5)	Listed		
	Isopropanol (CAS# 67-63-0)	Listed		
US. Pennsylvania Worker and C	community Right-to-Know Law			
····· ; · · · · · · ·	Glycerol (CAS# 56-81-5)	Listed		
	Isopropanol (CAS# 67-63-0)	Listed		
US. Rhode Island RTK		Listed		
US. KIIOUE ISIANO RIK				
	Glycerol (CAS# 56-81-5)	Listed		
	Isopropanol (CAS# 67-63-0)	Listed		
US California Proposition 65	,			

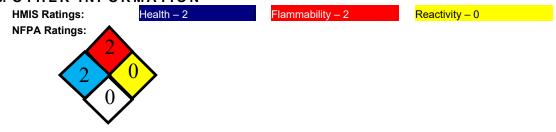
US. California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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



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 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:June 7, 2021Replaces MSDS dated:August 19, 2020Changes since lastSeveral GHS updates through-out SDS allVersion: 3revision:sections.

