

Avocado Research Chemicals Ltd - Material Safety Data Sheet 23339

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER			
Name On Label	Hexa-n-propyl phosphorous triamide		
Product Number	23339		
Supplier	Johnson Matthey Catalog Company Inc. 30 Bond Street, Ward Hill, Massachusetts, 01835-8099 Emergency Telephone Number: (978) 521-6300; CHEMTREC: (800) 424-9300		
Alternative Names	None in common use.		
2. COMPOSITION AND INFORMATION ON COMPONENTS			
Name	Hexa-n-propyl phosphorous triamide		
Minor Impurities	Not determined		
CAS No.	5848-64-6	EINECS No.	Not listed
		EEC No.	
3. HAZARDS IDENTIFICATION			
Designation	FLAMMABLE ~ HARMFUL		
Risk Phrases	R10	Flammable.	
	R20/21	Harmful by inhalation and in contact with skin.	
	R65	Harmful: May cause lung damage if swallowed.	
4. FIRST AID MEASURES			
Inhalation	Remove to fresh air. Seek medical advice if symptoms persist.		
Eye Contact	Flush with copious amounts of water for at least 15 minutes. If symptoms arise, seek medical advice.		
Skin Contact	Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. If unusual symptoms are observed, seek medical advice. Show the physician the container details.		
Ingestion	Rinse out mouth and drink lots of water. In case of unusual symptoms, seek medical attention and show physician the container details.		
5. FIRE FIGHTING MEASURES			
Extinguishing Medium	Use fire fighting measures which suit the environment and take into account other materials which may be involved. In general, water-based extinguishers should not be used for fires involving organic materials. Use carbon dioxide or dry powder.		
Protective Equipment	Wear self-contained breathing apparatus and protective clothing.		
Hazardous Products of Combustion may include:	carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, phosphorus pentoxide, phosphoric acid, hydrogen cyanide.		
6. ACCIDENTAL RELEASE MEASURES			
Personal Protection	Keep away from ignition sources. Avoid inhalation of vapour. Wear protective equipment including rubber gloves, eye protection and breathing equipment. Keep unprotected persons away.		
Environmental Protection Collection	Take precautions to ensure product does not contaminate the ground or enter the drainage system. Absorb in vermiculite or proprietary absorbent material and transfer to sealed containers for disposal.		
7. HANDLING AND STORAGE			
Handling	Chemicals should be used only by those trained in handling potentially hazardous materials. Rubber gloves, eye protection and protective clothing should be worn. Operations should be carried out in an efficient fume hood or equivalent system.		
Storage	Store in tightly sealed containers in a cool place. Protect from moisture. Material is sensitive to aerial oxidation.		
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION			
Respiratory	Avoid inhalation of product. Handle in an efficient fume hood or equivalent system.		
Eye	Avoid eye contact. Wear safety spectacles or goggles.		
Hands and Body	Avoid skin contact. Wear rubber gloves and protective clothing.		

Continued on next page...

23339 continued.

9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance			
Physical Constants	b.p. 101-103°/0.15mm		
Molecular formula	C ₁₈ H ₄₂ N ₃ P	Formula Wt.	331.53
Water solubility		Density	Not available
Flash Point	Not available		
10. STABILITY AND REACTIVITY			
Specific Hazard			
Incompatibilities	Strong oxidising agents.		
Decomposition	Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, phosphorus pentoxide, phosphoric acid, hydrogen cyanide.		
11. TOXICOLOGICAL INFORMATION			
RTECS No.	Not listed		
Acute Toxicity	LD ₅₀ : Not available Harmful by inhalation and in contact with skin.		
12. ECOLOGICAL EFFECTS			
General	Take care to prevent chemicals from entering the ground, water courses or drainage systems.		
13. DISPOSAL CONSIDERATIONS			
Disposal	Disposal should be via an approved contractor and should take full account of local regulations.		
14. TRANSPORT INFORMATION			
UN Number			
Land Transport	ADR/RIC Code/Class	Packing Group n/a	
Maritime Transport	IMDG Code/Class	Packing Group n/a	
Air Transport	IATA Code/Class	Packing Group n/a	
15. REGULATORY INFORMATION			
CAS No. 5848-64-6	EINECS No. Not listed	EEC No.	UN No. None RTECS No. Not listed
Hazard Indication	FLAMMABLE ~ HARMFUL		
Risk & Safety Phrases	Flammable. Harmful by inhalation and in contact with skin. Harmful: May cause lung damage if swallowed. Keep away from sources of ignition - No Smoking. Wear suitable protective clothing, gloves and eye/face protection.		
TSCA			
16. OTHER INFORMATION			
It must be recognised that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.			
Date of Last Review:	1st June 2000	Date Printed:	13th November 2000