

Avocado Research Chemicals Ltd - Material Safety Data Sheet 20694

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER			
Name On Label	Copper(II) tetrafluoroborate hexahydrate		
Product Number	20694		
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	Cupric tetrafluoroborate		
2. COMPOSITION AND INFORMATION ON COMPONENTS			
Name	Copper(II) tetrafluoroborate hexahydrate		
Minor Impurities	Not determined		
CAS No.	38465-60-0	EINECS No. 2539594	EEC No.
3. HAZARDS IDENTIFICATION			
Designation	HARMFUL		
Risk Phrases	R20/21/22 Harmful by inhalation, in contact with skin and 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: hydrogen fluoride (hydrofluoric acid).			
6. ACCIDENTAL RELEASE MEASURES			
Personal Protection	Avoid inhalation or contact of spilled material with skin or clothing. Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons away.		
Environmental Protection	Take precautions to ensure product does not contaminate the ground or enter the drainage system.		
Collection	Mix with 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.		
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.		

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9. PHYSICAL AND CHEMICAL PROPERTIES								
Appearance	Solid							
Physical Constants	Not available							
Molecular formula	B ₂ CuF ₈ .6H ₂ O	Formula Wt.	345.27					
Water solubility	Dec	Density	Not available					
Flash Point	Not available							
10. STABILITY AND REACTIVITY								
Specific Hazard								
Incompatibilities	Strong acids. Strong oxidising agents.							
Decomposition	Hazardous products of decomposition may include:hydrogen fluoride (hydrofluoric acid).							
11. TOXICOLOGICAL INFORMATION								
RTECS No.	Not listed							
Acute Toxicity	LD ₅₀ : No data reported Harmful by inhalation, in contact with skin and if swallowed.							
Special Note	Symptoms of exposure may include hepatic cirrhosis, brain damage and demyelination, kidney defects and copper deposition in the cornea (in humans with Wilson s disease), haemolytic anaemia and accelerated arteriosclerosis.							
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	3288							
Land Transport	ADR/RIC Code/Class	6.1	Packing Group III					
Maritime Transport	IMDG Code/Class	6.1	Packing Group III					
Air Transport	IATA Code/Class	6.1	Packing Group III					
15. REGULATORY INFORMATION								
CAS No.	38465-60-0	EINECS No.	2539594	EEC No.	UN No.	3288	RTECS No.	Not listed
Hazard Indication	HARMFUL							
Risk & Safety Phrases	Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.							
TSCA	Not listed. For research and development use only.							
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:		3rd August 1998		Date Printed:		18th September 1998		