1. IDENTIFICATION OF SU	BSTANCE AND SUPPLIER				
Name On Label Product Number Supplier	Ethyl acetamidocyanoacetate 15794 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 INF	ORMATION ON COMPONENTS				
Name Minor Impurities CAS No.	Ethyl acetamidocyanoacetate Not determined 4977-62-2 EINECS No. 2256242 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 Eye Contact	Remove to fresh air. Seek medical advice if symptoms persist. Flush with copious amounts of water for at least 15 minutes. If symptoms arise, seek medical advice.				
Skin Contact Ingestion	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. 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 MEASUI 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 Hazardous Products of Co	Wear self-contained breathing apparatus and protective clothing. bmbustion may include: carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen				
cyanide.					
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. Take precautions to ensure product does not contaminate the ground or enter the drainage system. Mix with vermiculite or proprietary absorbent material and transfer to sealed containers for disposal.				
Environmental Protection Collection					
7. HANDLING AND STORAGE					
Handling Storage	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. Store in tightly sealed containers in a cool place. Protect from moisture.				
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION					
Respiratory Eye Hands and Body	Avoid inhalation of product. Handle in an efficient fume hood or equivalent system. Avoid eye contact. Wear safety spectacles or goggles. Avoid skin contact. Wear rubber gloves and protective clothing.				

## Continued on next page...

## 15794 continued.

Appearance Physical Constants Water solubility Off-white powder m.p. 128-130° C,PH <sub>10</sub> N <sub>20</sub> 3 Formula Wt. Density 170.17 Not available   10. STABILITY AND REACTIVITY Bases. Acids. Oxidising agents. Reducing agents. Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide.   11. TOXICOLOGICAL INFORMATION Bases. Acids. Oxidising agents. Reducing agents. Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide.   12. ECOLOGICAL EFFECTS General Take care to prevent chemicals from entering the ground, water courses or drainage systems.   13. DISPOSAL CONSIDERATIONS Disposal should be via an approved contractor and should take full account of local regulations.   14. TRANSPORT INFORMATION UN Number   3276 Land Transport   MDFIG Code/Class 6.1 Packing Group III MDG Code/Class   Maritime Transport MDF/IC Code/Class 6.1 Packing Group III MDG Code/Class   Kar Transport MDF/IC Code/Class 6.1 Packing Group III MDG Code/Class 6.1   Risk & Safety Phrases Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing. Was suitable protective clothing.   ISCA Not listed. For research and development use only. 16. OTHER INFORMATION						
Physical Constants m.p. 128-130° Water solubility Not available 10. STABILITY AND REACTIVITY Specific Hazard Incompatibilities Bases. Acids. Oxidising agents. Reducing agents. Hazardous products of decomposition may include:carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide. 11. TOXICOLOGICAL INFORMATION RTECS No. Not listed Acute Toxicity LD <sub>50</sub> : No data reported Harmful by inhalation, in contact with skin and if swallowed. 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 3276 Land Transport MDG Code/Class 6.1 Packing Group III Martime Transport MDG Code/Class 6.1 Packing Group III MDG Code/Class 6.1 Packing Group III MDG Code/Class 6.1 Packing Group III MDG Code/Class 6.1 Packing Group III 15. REGULATORY INFORMATION CAS No. 4977-62-2 EINECS No. 2256242 EEC No. UN No. 3276 RTECS No. Not listed Hazard Indication HARMFUL Hisk & Safety Phrases Hisk & Safety Phrases Not listed. For research and development use only. 16. OTHER INFORMATION 17. CHER INFORMATION 16. OTHER INFORMATION	9. PHYSICAL AND CHEMICAL PROPERTIES					
Specific Hazard Bases. Acids. Oxidising agents. Reducing agents. Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide.   11. TOXICOLOGICAL INFORMATION RTECS No. Not listed   Acute Toxicity Dogs: No data reported Harmful by inhalation, in contact with skin and if swallowed.   12. ECOLOGICAL EFFECTS Take care to prevent chemicals from entering the ground, water courses or drainage systems.   13. DISPOSAL CONSIDERATIONS Disposal biold be via an approved contractor and should take full account of local regulations.   14. TRANSPORT INFORMATION Maritime Transport 3276   Land Transport ADP/RIC Code/Class 6.1 Packing Group III MOG Code/Class 6.1 Packing Group III Air Transport   15. REGULATORY INFORMATION 6.1 Packing Group III NAT Code/Class 6.1 Packing Group III MAT Code/Class 6.1 Packing Group III   15. REGULATORY INFORMATION Code/Class 6.1 Packing Group III MAT Code/Class 6.1 Packing Group III   16. TRANSPORT INFORMATION Marmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.   17. BRS & Safety Phrases Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.   18. OTHER INFORMATION Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.   18. Contert INFORMATION Harmful by inhalation, in contact with skin and if swallowe	Appearance Physical Constants Molecular formula Water solubility Flash Point	m.p. 128-130° C <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>		-		
Specific Hazard Bases. Acids. Oxidising agents. Reducing agents. Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide.   11. TOXICOLOGICAL INFORMATION RTECS No. Not listed   Acute Toxicity Dogs: No data reported Harmful by inhalation, in contact with skin and if swallowed.   12. ECOLOGICAL EFFECTS Take care to prevent chemicals from entering the ground, water courses or drainage systems.   13. DISPOSAL CONSIDERATIONS Disposal biold be via an approved contractor and should take full account of local regulations.   14. TRANSPORT INFORMATION Maritime Transport 3276   Land Transport ADP/RIC Code/Class 6.1 Packing Group III MOG Code/Class 6.1 Packing Group III Air Transport   15. REGULATORY INFORMATION 6.1 Packing Group III NAT Code/Class 6.1 Packing Group III MAT Code/Class 6.1 Packing Group III   15. REGULATORY INFORMATION Code/Class 6.1 Packing Group III MAT Code/Class 6.1 Packing Group III   16. TRANSPORT INFORMATION Marmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.   17. BRS & Safety Phrases Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.   18. OTHER INFORMATION Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.   18. Contert INFORMATION Harmful by inhalation, in contact with skin and if swallowe	10. STABILITY AND REACTIVITY					
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13. DISPOSAL CONSIDERATIONS   Disposal Disposal should be via an approved contractor and should take full account of local regulations.   14. TRANSPORT INFORMATION   UN Number 3276   Land Transport ADR/RIC Code/Class 6.1 Packing Group III   Maritime Transport ADR/RIC Code/Class 6.1 Packing Group III   Air Transport IMDG Code/Class 6.1 Packing Group III   Air Transport IATA Code/Class 6.1 Packing Group III   State Transport IATA Code/Class 6.1 P	12. ECOLOGICAL EFFECTS					
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14. TRANSPORT INFORMATION   UN Number 3276   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   Air Transport IATA Code/Class 6.1 Packing Group III   15. REGULATORY INFORMATION EINECS No. 2256242 EEC No. UN No. 3276 RTECS No. Not listed   Hazard Indication HARMFUL Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing. Wear suitable protective clothing.   TSCA Not listed. For research and development use only. 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.	13. DISPOSAL CONSIDERATIONS					
UN Number 3276   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 IATA Code/Class 6.1 Packing Group III   15. REGULATORY INFORMATION EINECS No. 2256242 EEC No. UN No. 3276 RTECS No. Not listed   Hazard Indication HARMFUL Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing. Wear suitable protective clothing.   TSCA Not listed. For research and development use only. 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.	Disposal	Disposal should be via an approved contractor and should take full account of local regulations.				
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CAS No. 4977-62-2EINECS No. 2256242EEC No.UN No. 3276RTECS No. Not listedHazard IndicationHARMFULRisk & Safety PhrasesHarmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.TSCANot listed. For research and development use only.16. OTHER INFORMATIONIt 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.	Land Transport Maritime Transport Air Transport	IMDG Code/Class 6.1	Packing Group III			
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.	15. REGULATORY INFORMATION					
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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.	Hazard Indication	HARMFUL				
<b>16. OTHER INFORMATION</b> 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.	Risk & Safety Phrases	Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.				
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Date of Last Review: 3rd August 1998 Date Printed: 18th September 1998	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		