

Avocado Research Chemicals Ltd - Material Safety Data Sheet 17795

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

| | |
|-------------------|--|
| Name On Label | Magnesium perchlorate hydrate |
| Product Number | 17795 |
| 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 | Magnesium perchlorate hydrate | | |
| Minor Impurities | Not determined | | |
| CAS No. | 64010-42-0 | EINECS No. | Not listed |
| | | | EEC No. |

3. HAZARDS IDENTIFICATION

| | |
|--------------|--|
| Designation | OXIDISING AGENT ~ IRRITANT |
| Risk Phrases | R8 Contact with combustible material may cause fire. R14 Reacts violently with water. R36/37/38 Irritating to eyes, respiratory system and skin. |
| | |

4. FIRST AID MEASURES

| | |
|--------------|---|
| Inhalation | Remove to fresh air. If breathing is difficult give oxygen and seek medical attention. |
| Eye Contact | Flush with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention. |
| Skin Contact | Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. If irritation persists or other symptoms are observed, seek medical advice. |
| Ingestion | Rinse out mouth and drink lots of water. In case of irritation or other symptoms, seek medical attention. |

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 chloride (hydrochloric acid). | |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-------------------------------------|---|
| Personal Protection | Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons away. |
| Environmental Protection Collection | 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. |

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, goggles or, for larger quantities, a full face mask. |
| Hands and Body | Irritant product. Avoid skin contact. Wear rubber gloves, protective clothing and, for larger quantities, full arm, body and face protection. Wash hands thoroughly after handling. |

Continued on next page...

17795 continued.

| 9. PHYSICAL AND CHEMICAL PROPERTIES | | | | | | | | |
|--|---|------------------------------|---------------------|---------------------|--|--|--|--|
| Appearance | White crystals | | | | | | | |
| Physical Constants | Not available | | | | | | | |
| Molecular formula | Cl ₂ MgO ₄ .xH ₂ O | | | | | | | |
| Water solubility | V sol | Formula Wt. | 223.21 (anhydrous) | | | | | |
| Flash Point | Not available | Density | Not available | | | | | |
| 10. STABILITY AND REACTIVITY | | | | | | | | |
| Specific Hazard | Reacts violently with water. | | | | | | | |
| Incompatibilities | Strong acids. Strong reducing agents. Finely powdered metals. | Reacts violently with water. | | | | | | |
| Decomposition | Reacts violently with water. Hazardous products of decomposition may include: hydrogen chloride (hydrochloric acid). | | | | | | | |
| 11. TOXICOLOGICAL INFORMATION | | | | | | | | |
| RTECS No. | SC8925000 | | | | | | | |
| Acute Toxicity | LD ₅₀ : IPR-MUS 1500mg/kg Irritating to eyes, respiratory system and 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 | 1475 | | | | | | | |
| Land Transport | ADR/RIC Code/Class 5.1 | Packing Group II | | | | | | |
| Maritime Transport | IMDG Code/Class 5.1 | Packing Group II | | | | | | |
| Air Transport | IATA Code/Class 5.1 | Packing Group II | | | | | | |
| 15. REGULATORY INFORMATION | | | | | | | | |
| CAS No. 64010-42-0 | EINECS No. Not listed | EEC No. | UN No. 1475 | RTECS No. SC8925000 | | | | |
| Hazard Indication | OXIDISING AGENT ~ IRRITANT | | | | | | | |
| Risk & Safety Phrases | Contact with combustible material may cause fire. Reacts violently with water. Irritating to eyes, respiratory system and skin. Keep away from combustible material. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. Wear suitable protective clothing, gloves and eye/face protection. | | | | | | | |
| TSCA | Listed substance. | | | | | | | |
| 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 | | | | | |