

Avocado Research Chemicals Ltd - Material Safety Data Sheet 12522

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| 1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER | | | |
| Name On Label | 1,4-Cyclohexadiene | | |
| Product Number | 12522 | | |
| 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 | 1,4-Dihydrobenzene | | |
| 2. COMPOSITION AND INFORMATION ON COMPONENTS | | | |
| Name | 1,4-Cyclohexadiene | | |
| Minor Impurities | Not determined | | |
| CAS No. | 628-41-1 | EINECS No. 2110431 | EEC No. |
| 3. HAZARDS IDENTIFICATION | | | |
| Designation | EXTREMELY FLAMMABLE ~ HARMFUL | | |
| Risk Phrases | R12 Extremely flammable. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R42/43 May cause sensitisation by inhalation and skin contact. R45 May cause cancer. R41 Risk of serious damage to eyes. | | |
| 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. | | | |
| 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 | Take precautions to ensure product does not contaminate the ground or enter the drainage system. | | |
| Collection | 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 refrigerator or cold room at 5 degrees centigrade or below. Protect from moisture. | | |
| 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION | | | |
| Respiratory | Volatile product. Avoid inhalation of vapour. 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 | Colorless liquid | | | |
| Physical Constants | b.p. 88-90° | | | |
| Molecular formula | C ₆ H ₈ | Formula Wt. | 80.13 | |
| Water solubility | Insol | Density | 0.847 | |
| Flash Point | -7° | | | |
| 10. STABILITY AND REACTIVITY | | | | |
| Specific Hazard | | | | |
| Incompatibilities | Strong oxidising agents. | | | |
| Decomposition | Hazardous products of decomposition may include: carbon monoxide, carbon dioxide. | | | |
| 11. TOXICOLOGICAL INFORMATION | | | | |
| RTECS No. | Not listed | | | |
| Acute Toxicity | LD ₅₀ : No data reported Harmful by inhalation, in contact with skin and if swallowed. May cause sensitisation by inhalation and skin contact. May cause cancer. Risk of serious damage to eyes. | | | |
| Chronic Toxicity | Carcinogen. May cause damage to the kidneys. | | | |
| 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 | 1993 | | | |
| Land Transport | ADR/RIC Code/Class | 3.1 | Packing Group I | |
| Maritime Transport | IMDG Code/Class | 3.1 | Packing Group I | |
| Air Transport | IATA Code/Class | 3.1 | Packing Group I | |
| 15. REGULATORY INFORMATION | | | | |
| CAS No. 628-41-1 | EINECS No. 2110431 | EEC No. | UN No. 1993 | RTECS No. Not listed |
| Hazard Indication | EXTREMELY FLAMMABLE ~ HARMFUL | | | |
| Risk & Safety Phrases | Extremely flammable. Harmful by inhalation, in contact with skin and if swallowed. May cause sensitisation by inhalation and skin contact. May cause cancer. Risk of serious damage to eyes. Keep away from sources of ignition - No Smoking. Avoid exposure - obtain special instructions before use. Wear suitable protective clothing, gloves and eye/face protection. If you feel unwell, seek medical advice (show the label where possible). | | | |
| 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 |