

Avocado Research Chemicals Ltd - Material Safety Data Sheet 12930

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| 1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER | | | |
| Name On Label | Lithium borohydride | | |
| Product Number | 12930 | | |
| 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 | Lithium tetrahydridoborate | | |
| 2. COMPOSITION AND INFORMATION ON COMPONENTS | | | |
| Name | Lithium borohydride | | |
| Minor Impurities | Not determined | | |
| CAS No. | 16949-15-8 | EINECS No. 2410217 | EEC No. |
| 3. HAZARDS IDENTIFICATION | | | |
| Designation | TOXIC ~ CORROSIVE ~ FLAMMABLE SOLID ~ DANGEROUS WHEN WET | | |
| Risk Phrases | R11 Highly flammable. R14/15 Reacts violently with water, liberating highly flammable gases. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R34 Causes burns. R43 May cause sensitisation by skin contact. | | |
| 4. FIRST AID MEASURES | | | |
| Inhalation | Remove to fresh air. In cases of serious discomfort seek medical attention. | | |
| Eye Contact | Flush with copious amounts of water for at least 15 minutes. Seek urgent medical attention. | | |
| Skin Contact | Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. In case of skin damage seek urgent medical advice. Show the physician the container details. | | |
| Ingestion | Rinse out mouth and drink lots of water. 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: None listed. | | | |
| 6. ACCIDENTAL RELEASE MEASURES | | | |
| Personal Protection | Avoid contact of spilled material with water or alcohols. 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 | 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 | Corrosive product. Avoid skin contact. Wear corrosive-resitant gloves and, for larger quantities, full arm and body protection. Wash hands thoroughly after handling. | | |

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| 9. PHYSICAL AND CHEMICAL PROPERTIES | | | |
| Appearance | White-grey crystalline powder | | |
| Physical Constants | Not available | | |
| Molecular formula | H ₄ BLi | Formula Wt. | 21.78 |
| Water solubility | Dec | Density | 0.66 |
| Flash Point | Not available | | |
| 10. STABILITY AND REACTIVITY | | | |
| Specific Hazard | Reacts violently with water, liberating highly flammable gases. | | |
| Incompatibilities | Strong acids. Strong oxidising agents. Reacts violently with water, halogens and phosphorus halides. Acid anhydrides. Amines. Chloroformates. | | |
| Decomposition | Hazardous products of decomposition may include:None listed. | | |
| 11. TOXICOLOGICAL INFORMATION | | | |
| RTECS No. | OJ6427000 | | |
| Acute Toxicity | LD ₅₀ : No data reported Toxic by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. | | |
| Special Note | Causes burns. Material is extremely destructive to mucous membranes, upper respiratory tract, eyes and skin. Inhalation may be fatal. Symptoms may include burning sensation, coughing, wheezing, laryngitis, headache, nausea and vomiting. Symptoms of exposure may include gastrointestinal disturbances. | | |
| 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 | 1413 | | |
| Land Transport | ADR/RIC Code/Class | 4.3 | Packing Group I |
| Maritime Transport | IMDG Code/Class | 4.3 | Packing Group I |
| Air Transport | IATA Code/Class | 4.3 | Packing Group I |
| 15. REGULATORY INFORMATION | | | |
| CAS No. 16949-15-8 | EINECS No. 2410217 | EEC No. | UN No. 1413 RTECS No. OJ6427000 |
| Hazard Indication | TOXIC ~ CORROSIVE ~ FLAMMABLE SOLID ~ DANGEROUS WHEN WET | | |
| Risk & Safety Phrases | Highly flammable. Reacts violently with water, liberating highly flammable gases. Toxic by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Keep container tightly closed and dry. Wear suitable protective clothing, gloves and eye/face protection. | | |
| TSCA | If you feel unwell, seek medical advice (show the label where possible). 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 |