

Allucid, inc.

1-1, Bengong 5th Rd., Gangshan, Kaohsiung, Taiwan 82059

Tel: +886-7-624-3737

<http://www.allucid.com>

Safety Data Sheet CARBOXYBENZOTRIAZOLE

1. Information of Manufacturer/Supplier

Product Name: CARBOXYBENZOTRIAZOLE
Suggested use : Adhesion promoter
Restriction: Do not use in food
Name of Manufacturer/Supplier: Allucid, Inc.
Address of Manufacturer/Supplier: 1-1, Bengong 5th Rd., Gangshan Kaohsiung, Taiwan82059
Person/Telephone Number for Inquiry: H.-T. Eric Chen +886-7-624-3737
Emergency Telephone Number: +886-7-624-3737 Facsimile Number: +886-7-624-3736

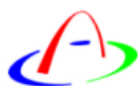
2. Hazards Identification

Emergency Overview
CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY AND DIGESTIVE TRACT IRRITATION.
Target Organs: No data found.
Potential Health Effects
Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.
Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.
Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Chronic Exposure: No information found.

3. Product Identification

Product Name: CARBOXYBENZOTRIAZOLE			
Synonym: 1H-Benzotriazole Carboxylic Acid			
Name	Molecular Formula	Molecular Weight	CAS NO.
	C ₇ H ₆ N ₃ O ₂ • H ₂ O	182	60932-58-3

Ingredient	CAS NO.	Percent	EINECS	Hazard Symbols	Risk Phrases
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1H-Benzotriazole Carboxylic Acid	60932-58-3	>99		None Listed	None Listed
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4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Skin Contact:

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

5. Fire Fighting Measures

Special Information:

In the event of a fire, wear full protective clothing and MSHA/NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Fire:

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide. Water may be ineffective.

Autoignition Temperature	Flash Point	Explosion Limits, lower	Explosion Limits, upper
Not available	Not available	Not available	Not available

NFPA Rating: (estimated) Health: 1; Flammability: 0; Reactivity: 0

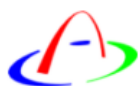
6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container

7. Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with



eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Fina	PELS
1H-Benzotriazole Carboxylic Acid	none listed	none listed	none listed	no

OSHA Vacated PELs: No OSHA vacated PELs are listed for this chemical.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR: 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

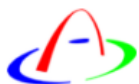
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

9. Physical and Chemical Properties

Appearance: White to pale yellow powder	Solubility (g/100g at 20°C) Water 0.04 Ethyl Alcohol 1.6 Ethylene Glycol 8.5 Acetone 2.3 DMAC 60.3 THF 0.5 Toluene < 0.01 Hexane < 0.01
Purity(HPLC): 99% min	
Melting Point: Decompose at about 280°C	
Acid Value: 300 mg KOH/g	
Loss of Drying: 1% max	
Insoluble in water: insoluble	

10. Stability and Reactivity

Stability	Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products	Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen
Hazardous Polymerization	Has not been reported.



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Incompatibilities	Oxidizing agents.
Conditions to Avoid	Heat, flames, ignition sources, strong oxidants and incompatibles.

11. Ecological Information

None

12. Disposal Consideration

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.
US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

13. Toxicological Information

RTECS#	Oral Rate, LD50	Epidemiology	Teratogenicity
unlisted	> 5,000 mg/kg	no information available	no information available

Reproductive effects	Neurotoxicity	Mutagenicity	LD50, Dermal rabbit
no information available	no information available	no information available	> 10,000 mg/kg

Carcinogenicity
Not listed by CGIH, IARC, NIOSH, NTP, or OSHA

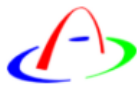
14. Transport Information

US DOT: No information available.
Canadian TDG: No information available.

15. Regulatory Information

US FEDERAL

TSCA				
TSCA Inventory	Health & Safety Reporting List	Chemical Test Rule	TSCA Section 12b	SNUR
yes	no	no	no	no
SARA				
Section 302 (RQ)		Section 302 (TPQ)		Section 313
no		no		no
Clean Air Act (CAA)				



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Hazardous Air Pollutant	Class 1 Ozone Depletor	Class 2 Ozone Depletor
no	no	no
Clean Water Act (CWA)		
Hazardous Substance	Priority Pollutant	Toxic Pollutant
no	no	no
OSHA: Not considered highly hazardous		

STATE

Not present on state lists from CA, PA, MN, MA, FL, or NJ.
California No Significant Risk Level: No

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25	Avoid contact with skin and eyes.
S 28A	After contact with skin, wash immediately with plenty of water
S 37	Wear suitable gloves.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection) CAS# 60932-58-3

United Kingdom Occupational Exposure Limits

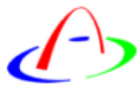
Canada

DSL List	WHMIS	Ingredient Disclosure List
yes	no	no

16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damage of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if the company has been advised of the possibility of such damages.

Provider	Name: ALLUCID, INC.
	Address: 1-1, Bengong 5th Rd., Gangshan Kaohsiung, Taiwan82059
	TEL: +886-7-624-3737 FAX: +886-7-624-3736
Person	J. F. Chung, Quality and Safety Assurance Engineer
Date	Jul 25, 2015



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