



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
20	Health Hazard 2 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	D-Amygdalin		talog mber(s).	A3834
		CA	S#	29883-15-6
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RT	ECS	OO8450000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		CA	TSCA 8(b) inventory: No products were found. Not listed on TSCA 8(b) inventory.
Commercial Name(s)	Amygdaloside; Amygdalin; R-Amygdalin; Laetrile	CI	#	Not available.
Synonym	Benzeneacetonitrile, alpha-((6-O-beta-D-glucopyranosyl-beta-D-glucopyranosyl)oxy)-, (R)-; D-Mandelonitrile-beta-D-glucosido-6-beta-D-glucoside; Mandelonitrile-beta-gentiobioside; (R)-alpha-((6-O-beta-D-Glucopyranosyl-beta-D-glucopyranosyl)oxy)be			EMERGENCY 2 (24hr) 800-424-9300
Chemical Name	D(-)-Mandelonitrile-beta-D-gentiobioside			
Chemical Family	Not available.		LL (310) 5	16-8000
Chemical Formula	C20-H27-N-O11			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) {D-}Amygdalin		29883-15-6				100
Toxicological Data on Ingredients	D-Amygdalin : ORAL (LD50):	Acute: 405 mg/l	kg [Rat]. 443 mg/kg	[Mouse].		

Section 3. Hazards lo	Section 3. Hazards Identification		
Potential Acute Health Effects	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.		
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.		

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D-Amygdalin	Page Number: 2
Section 4. First Aid N	Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. WARM water MUST be used. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious Skin Contact	Not available.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Notice to Physician: Have a cyanide first-aid kit available.
Section 5. Fire and E.	xplosion Data
Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	As with most organic solids, fire is possible at elevated temperatures. Material in powder form, capable of creating a dust explosion.
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Section 6. Accidental	Release Measures
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Large Spill

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Section 7. Handling and Storage	

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Precautions

Section 8. Exposure	Controls/Personal Protection
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

Section 9. Physical and Chemical Properties				
Physical state and appearance	Solid. (Powdered solid.)		Odor	Not available.
Molecular Weight	457.43 g/mole		Taste	Not available.
pH (1% soln/water)	Not available.		Color	White. Off-white.
Boiling Point	Not available.			
Melting Point	210°C (410°F) - 226 C.			
Critical Temperature	Not available.			
Specific Gravity	Not available.			
Vapor Pressure	Not applicable.			
Vapor Density	Not available.			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	Not available.			
Ionicity (in Water)	Not available.			
Dispersion Properties	See solubility in water.			
Solubility	Easily soluble in hot water. Insoluble in diethyl ether. Slightly soluble in alcohol. Soluble in hot alcohol. Insoluble in chloroform			

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Section 10. Stability	Section 10. Stability and Reactivity Data	
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Excess heat, incompatible materials	
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis.	
Corrosivity	Not available.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	

Section 11. Toxicolo	ogical Information
Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 405 mg/kg [Rat].
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May cause birth defects (teratogenic) based on animal test data. May affect genetic material (mutagenic)
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: Dust may cause respiratory tract irritation. Ingestion: Harmful if swallowed. May cause malaise, abdominal cramps, nausea, vomiting, anorexia. May affect respiration (difficulty breathing, shortness of breath, respiratory stimulation), behavior/central nervous system (headache, somnolence, convulsions). It may cause a cyanide-like effect with increase in blood cyanide levels. Always have a cyanide first-aid kit present when working with this material. Chronic Potential Health Effects: Ingestion: Repeated or prolonged ingestion may affect the blood (changes in red and white blood cell count, pigmented or nucleated red blood cells).

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.	
Special Remarks on the Products of Biodegradation	Not available.	

Polymerization

Will not occur.

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Section 13. Disposal Considerations

Vaste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

Section 14. Trans	Section 14. Transport Information	
DOT Classification	Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	
DOT (Pictograms)		

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	No products were found.
Canforma Proposition 65	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.
Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 249-925-3). Canada: Not listed on Canadian Domestic Substance List (DSL) or Canadian Non-Domestic Substances List (NDSL) China: Not listed on National Inventory. Japan: Not listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI).

Philippines: Not listed on National Inventory (PICCS).

Australia: Listed on AICS.

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). Other Classifications WHMIS (Canada) DSCL (EEC) R22- Harmful if swallowed. S46- If swallowed, seek medical advice

immediately and show this container or label.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	(E)

National Fire Protection Association (U.S.A.) Health

Flammability Reactivity

Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



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CDC (C	

TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Safety glasses.

Section 16. Other Information			
MSDS Code	A0417		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 11/14/2007.		Verified by Sonia Owen. Printed 1/21/2008.	

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.