

A Division of Spectrum Chemical Mfg. Corp.

Dear Customer,

# This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI format to the GHS format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

## Why It Matters:

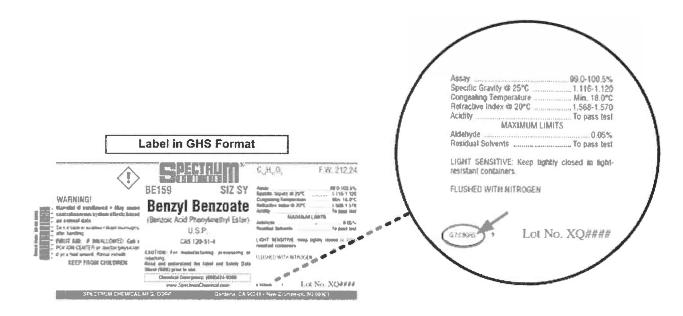
The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

# <u>Picking the Right One</u>: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

- 1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond. ANSI labels: pictograms, if present, will be inside individual black boxes.
- 2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter. For GHS labels, the string of characters will end in "GHS:"



CORPORATE OFFICES
14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843



<sup>&</sup>lt;sup>1</sup> American National Standards Institute

Sincerely,

**Regulatory Affairs** 

<sup>&</sup>lt;sup>2</sup> Globally Harmonized System for Hazard Communication





1/10

## **MATERIAL SAFETY DATA SHEET**

NFPA HMIS Personal Protective Equipment



Health Hazard	1
Fire Hazard	1
Reactivity	0



See Section 8.

1. CHEMICAL PRODUCT AN	ND COMPANY IDENTIFICATION
Product code:	H2726
Product Name:	5-HYDROXY-DL-TRYPTOPHAN
Chemical Name:	No information available
Synonyms:	(+-)-5-Hydroxytryptophan
	dl-Hydroxytryptophan
	DL-5-Hydroxytryptophan
	DL-Tryptophen, 5-hydroxy- (9CI)
	DL-2-Amino-3-(5-hydroxyindolyl)propionic Acid
	DL-5-HTP
Recommended use:	No information available.
CAS #:	114-03-4
RTECS #	YN7100000
Formula:	C11-H12-N2-O3
CI#:	Not available
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.
	14422 South San Pedro St.
	Gardena, CA 90248
	(310) 516-8000
Order Online At:	https://www.spectrumchemical.com
Emergency Telephone Number:	CHEMTREC: 1-800-424-9300
Contact Person:	lbad Tirmiz (East Coast)
Contact Person:	Martin LaBenz (West Coast)

## 2. HAZARDS IDENTIFICATION

Product code: H2726 Product name: 5-HYDROXY-DL-

## 2. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

May cause skin and eye irritation
May cause irritation of respiratory tract

Odor:Physical state:Appearance:Color:None.Solid.Powder.White.

**OSHA Regulatory Status** 

This material is not considered hazardous by the OSHA Hazard Communication

Standard (29 1910.1200)

## **POTENTIAL HEALTH EFFECTS**

**Principal Routes of Exposure:** 

Ingestion. Inhalation.

**Acute Potential Health Effects:** 

**Skin Contact:** 

May cause skin irritation.

**Eye Contact:** 

May cause eye irritation.

Inhalation:

May cause irritation of respiratory tract.

Ingestion:

Expected to be a low hazard.

### **Chronic Potential Health Effects:**

Component Carcinogen Status:

5-Hydroxy-DL-tryptophan No information available

114-03-4 (100)

Target Organs: No information available

Mutagenic Effects: No information available

Teratogenic Effects: No information available

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

#### POTENTIAL ENVIRONMENTAL EFFECTS

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
5-Hydroxy-DL-tryptophan	114-03-4	100

Product code: H2726 Product name: 5-HYDROXY-DL- 2 / 10

## 4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes. Get medical attention if irritation develops. Consult a physician if

necessary.

**Eye Contact:** Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If

symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Notes to Physician: Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

#### Flammable Properties

Flashpoint (°C/°F):	No information available.

## Flash Point Tested according to:

Not available

Lower Explosion Limit (%):	No information available
Upper Explosion Limit (%):	No information available

## Autoignition Temperature (°C/°F): No information available

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide; Nitrogen oxides

Specific hazards:

May be combustible at high temperatures. Fine dust

dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion

hazard.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Specific Methods: No information available.

## 6. ACCIDENTAL RELEASE MEASURES

Product code: H2726 Product name: 5-HYDROXY-DL- 3/10

#### **Personal Precautions:**

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

#### **Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

## **Methods for Cleaning Up:**

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

## Handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

#### **Storage**

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures to reduce exposure:** Ensure adequate ventilation. 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 Protective Equipment**

**Eye protection:** Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Wear respirator with dust filter..

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

## National occupational exposure limits

**United States** 

**U.S Occupational Exposure Limits:** 

Product code: H2726 Product name: 5-HYDROXY-DL- 4/10

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
5-Hydroxy-DL-tryptophan - 114-03-4				

#### Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
5-Hydroxy-DL-tryptophan 114-03-4	None	None	None	None

#### **Australia and Mexico**

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
5-Hydroxy-DL-tryptophan	None	None
114-03-4		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:Solid.Powder.White.

Odor: Taste Molecular/Formula weight:

None. No information available 220.23

Flash point (°C): Lower Explosion Limit (%): Upper Explosion Limit (%): No data available No information available

Autoignition Temperature (°C/°F): Melting point/range(°C/°F): Boiling point/range(°C/°F):

No information available 298 °C/568 °F No information available

pH: Specific gravity: Density (g/cm3):

Decomposition temperature(°C/°F): Bulk density: Vapor pressure @ 20°C (kPa):

Evaporation rate: Vapor density: VOC content (g/L):
No information available No information available No information available

Odor threshold (ppm): Partition coefficient Miscibility:

No information available (n-octanol/water): No information available No information available

Solubility:

No information available

## 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust

dispersed in air in sufficient concentrations, and in the presence of an ignition source

is a potential dust explosion hazard.

**Incompatible Materials:** Strong oxidizing agents.

Hazardous decomposition

products:

Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

Product code: H2726 Product name: 5-HYDROXY-DL- 5 / 10

Possibility of Hazardous

Reactions:

No information available

**Polymerization:** Hazardous polymerisation does not occur

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

## **Acute Toxicity**

## **Component Information**

5-Hydroxy-DL-tryptophan - 114-03-4

LD50/oral/rat = No information available

LD50/oral/mouse = > 6 g/kg Oral LD50 Mouse

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

#### **Product Information**

LC50/inhalation/rat No information available LC50/Inhalation/mouse No information available LD50/dermal/rabbit No information available LD50/dermal/rat No information available LD50/oral/mouse = >6000mg/kg

LD50/oral/rat = No information available

#### **Local Effects**

Skin irritation: May cause skin irritation. May cause skin irritation in sensitive individuals.

Eye irritation: Contact with eyes may cause irritation.

Inhalation: May cause irritation of respiratory tract. Symptoms may include coughing and

sneezing.

Ingestion: Low hazard. Health injuries are not known or expected under normal use. The

Registry of Toxic Effects of Chemical Substances reports the following effects in

mice after intraperitoneal injection: Convulsions or seizures.

Sensitization: No information available

**Chronic Toxicity** 

No information available. **Chronic Toxicity** 

Carcinogenic effects: Not considered carcinogenic

Components	NTP	IARC	OSHA HCS -	<b>ACGIH - Carcinogens</b>	Australia - Prohibited	Australia - Notifiable
_			Carcinogens		Carcinogenic	Carcinogenic
					Substances	Substances
5-Hydroxy-DL-tryptophan	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Product code: H2726 Product name: 5-HYDROXY-DL-6/10

Mutagenic Effects: No information available

Reproductive Effects: No information available

Teratogenic Effects: No information available

Target Organs: No information available

## 12. ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

Toxicity to terrestrial and aquatic plants and animals: No information available

**Ecotoxicity effects:** No data available.

Aquatic toxicity: No information available

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	<b>RCRA - K Series Wastes</b>	<b>RCRA - P Series Wastes</b>	RCRA - U Series Wastes
5-Hydroxy-DL-tryptophan	None	None	None	None

## 14. TRANSPORT INFORMATION

DOT

**UN-No:** Not regulated

Proper Shipping Name: No information available Hazard Class: No information available

Packing Group: None

Subsidiary Risk: Not applicable
Marine Pollutant No data available

ERG No: No information available DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Description:
No information available
No information available
No information available
No information available

**ADR** 

Product code: H2726 Product name: 5-HYDROXY-DL- 7/10

**UN-No:** Not regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

**IMO / IMDG** 

UN-No: Not regulated

**Proper Shipping Name:** No information available **Hazard Class:** No information available **Packing Group:** No information available **Subsidiary Risk:** No information available **Description:** No information available IMDG Page: No information available **Marine Pollutant** No information available MFAG: No information available **Maximum Quantity:** No information available

**RID** 

**UN-No:** Not regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

**ICAO** 

**UN-No:** Not regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
No information available

**IATA** 

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Description:

No information available
No information available
No information available
No information available

## 15. REGULATORY INFORMATION

#### International Inventories

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
5-Hydroxy-DL-tryptophan	Not Listed	Not present	Present KE- 20925	Not present	Not present	Not present	Present 204-039-6

#### **U.S. Regulations**

Product code: H2726 Product name: 5-HYDROXY-DL- 8 / 10

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
5-Hydroxy-DL-tryptophan	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

•	CERCLA - Hazardous Substances and their	Section 302 Extremely Hazardous	Section 302 Extremely Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
5-Hydroxy-DL-tryptophan	None	None	None	None	None

## U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
5-Hydroxy-DL-tryptophan	Not Applicable	Not Applicable

#### Canada

#### WHMIS hazard class:

Non-controlled

## **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

## Inventory

Components	Canada (DSL)	Canada (NDSL)
5-Hydroxy-DL-tryptophan	Not Listed	Present

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
5-Hydroxy-DL-tryptophan	Not listed	Not listed	

#### **EU Classification**

## R-phrase(s)

not determined

## S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
5-Hydroxy-DL-tryptophan		No information	

9/10 Product code: H2726 Product name: 5-HYDROXY-DL-

The product is classified in accordance with Annex VI to Directive 67/548/EEC

## Indication of danger:

Not dangerous

## 16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 30-Sep-2014

Reason for revision: Not applicable

Prepared by: Sonia Owen

**Literature reference:** No information available

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. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 assumes no responsibility for the completeness or accuracy of the information contained herein.

Product code: H2726 Product name: 5-HYDROXY-DL- 10 / 10





## SAFETY DATA SHEET

Preparation Date: 9/30/2014	Revision Date: 9/30/2014	Revision Number: G1

#### **IDENTIFICATION**

**Product identifier** 

Product code: H2726

5-HYDROXY-DL-TRYPTOPHAN **Product Name:** 

Other means of identification

Synonyms: (+-)-5-Hydroxytryptophan

dl-Hydroxytryptophan DL-5-Hydroxytryptophan

DL-Tryptophen, 5-hydroxy- (9CI)

DL-2-Amino-3-(5-hydroxyindolyl)propionic Acid

DL-5-HTP 114-03-4

CAS #: YN7100000 RTECS# CI#: Not available

#### Recommended use of the chemical and restrictions on use

Recommended use: No information available. No information available Uses advised against

Supplier: Spectrum Chemicals and Laboratory Products, Inc.

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

**Order Online At:** https://www.spectrumchemical.com

**Emergency telephone number** Chemtrec 1-800-424-9300 **Contact Person:** 

Martin LaBenz (West Coast) **Contact Person:** Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## Label elements

Product code: H2726 Product name: 5-HYDROXY-DL-1/11

#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
5-Hydroxy-DL-tryptophan	114-03-4	100	*
114-03-4			

## 4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed Symptoms

May cause eye/skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician:

Treat symptomatically

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

#### 5. FIRE-FIGHTING MEASURES

### **Extinguishing Media**

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide; Nitrogen oxides

Product code: H2726 Product name: 5-HYDROXY-DL- 2 / 11

Specific hazards: May be combustible at high temperatures

Fine dust dispersed in air in sufficient concentrations, and in

the presence of an ignition source is a potential dust

explosion hazard

**Special Protective Actions for Firefighters** 

Specific Methods: No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Avoid dust formation. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains.

## Methods and material for containment and cleaning up

**Methods for containment**Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

## **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

#### National occupational exposure limits

**U.S Occupational Exposure Limits:** 

Product code: H2726 Product name: 5-HYDROXY-DL- 3 / 11

#### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
5-Hydroxy-DL-tryptophan - 114-03-4				

#### Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
	None	None	None	None
5-Hydroxy-DL-tryptophan - 114-03-4				

#### **Australia and Mexico**

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
5-Hydroxy-DL-tryptophan	None	None
114-03-4		

### Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. 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.

## Individual protection measures, such as personal protective equipment

## **Personal Protective Equipment**

**Eye protection:** Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Wear respirator with dust filter..

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: H2726 Product name: 5-HYDROXY-DL- 4/11

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:Solid.Powder.White.

Odor:TasteFormula:None.No information availableC11-H12-N2-O3

Molecular/Formula weight:Flash point (°C):Flashpoint (°C/°F):220.23No data availableNo information available.

Flash Point Tested according to: Lower Explosion Limit (%): Upper Explosion Limit (%):

Not available No information available No information available

Autoignition Temperature (°C/°F): pH: Melting point/range(°C/°F):

No information available No information available 298 °C/568 °F

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity:

No information available 
No information available 
No information available

Density (g/cm3): Vapor pressure @ 20°C (kPa):

**Evaporation rate:** Vapor density: VOC content (g/L):
No information available

No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available 
No information available

## 10. STABILITY AND REACTIVITY

Reactivity

No information available

**Chemical stability** 

Stability: Stable at normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust

dispersed in air in sufficient concentrations, and in the presence of an ignition source

is a potential dust explosion hazard.

Incompatible Materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product code: H2726 Product name: 5-HYDROXY-DL- 5/11

#### **Principal Routes of Exposure:**

Ingestion. Inhalation.

## **Acute Toxicity**

## **Component Information**

5-Hydroxy-DL-tryptophan - 114-03-4

LD50/oral/rat = No information available

LD50/oral/mouse = > 6 g/kg Oral LD50 Mouse LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available

**LC50/inhalation/mouse** = No infomation available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = >6000mg/kg

LD50/dermal/rabbit

**VALUE-Acute Tox Dermal =** No information available

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Low hazard. Health injuries are not known or expected under normal use. The

Registry of Toxic Effects of Chemical Substances reports the following effects in

mice after intraperitoneal injection: Convulsions or seizures.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Product code: H2726 Product name: 5-HYDROXY-DL- 6/11

Sensitization:

No information available

Mutagenic Effects:

No information available

Carcinogenic effects: Not considered carcinogenic.

Components	ACGIH -	IARC	NTP	OSHA HCS -	Australia - Prohibited	Australia - Notifiable
1	Carcinogens			Carcinogens	Carcinogenic	Carcinogenic
				_	Substances	Substances
5-Hydroxy-DL-tryptophan	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:

Teratogenic Effects:

No information available
No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure

Target Organs:

No information available No information available No information available

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

## 13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
5-Hydroxy-DL-tryptophan	None	None	None	None

## 14. TRANSPORT INFORMATION

Product code: H2726 Product name: 5-HYDROXY-DL- 7/11

## 14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated

**Proper Shipping Name:** No information available **Hazard Class:** No information available

Subsidiary Risk: Not applicable

Packing Group: None

Marine Pollutant

ERG No:

DOT RQ (lbs):

No data available

No information available

No information available

TDG (Canada)

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not regulated

No information available **Proper Shipping Name: Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available **IMDG Page:** No information available **Marine Pollutant** No information available No information available MFAG: No information available **Maximum Quantity:** 

**RID** 

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

**ICAO** 

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available
No information available
No information available

**Product code:** H2726 **Product name:** 5-HYDROXY-DL-TRYPTOPHAN

## 14. TRANSPORT INFORMATION

**Description:** No information available

**IATA** 

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

## 15. REGULATORY INFORMATION

#### **International Inventories**

Components	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	CHINA	Australia	EINECS-No.
			(PICCS)			(AICS)	
5-Hydroxy-DL-tryptophan	Not Listed	Present KE-	Not present	Not present	Not present	Not present	Present 204-039-6
		20925					

## **U.S. Regulations**

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive	Female Reproductive
			Toxicity	Toxicity:
5-Hydroxy-DL-tryptophan	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

•	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
	repertable qualitities	oubotanooo ana m qo	oubotaneou ana mao		
5-Hydroxy-DL-tryptophan	None	None	None	None	None

## U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
5-Hydroxy-DL-tryptophan	Not Applicable	Not Applicable

#### Canada

### WHMIS hazard class:

Non-controlled

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Product code: H2726 Product name: 5-HYDROXY-DL- 9 / 11

## Inventory

Components	Canada (DSL)	Canada (NDSL)
5-Hydroxy-DL-tryptophan	Not Listed	Present

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory
		Reporting
5-Hydroxy-DL-tryptophan	Not listed	Not listed

#### **EU Classification**

## R-phrase(s)

not determined

# S -phrase(s) none

Components	Classification	Concentration Limits:	Safety Phrases
5-Hydroxy-DL-tryptophan		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

## Indication of danger:

Not dangerous

## **16. OTHER INFORMATION**

Product code: H2726 Product name: 5-HYDROXY-DL-10/11

16. OTHER INFORMATION		
NFPA	HMIS	Personal Protective Equipment



Health Hazard	1
Fire Hazard	1
Reactivity	0



See Section 8.

**Preparation Date:** 9/30/2014 **Revision Date:** 9/30/2014 Sonia Owen Prepared by:

Disclaimer:

Product code: H2726

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) 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 SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable. Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Material Safety Data Sheet** 

Product name: 5-HYDROXY-DL-11 / 11