

# **Material Safety Data Sheet**

Version 1.0

Revision Date 11/20/2017

### **1. PRODUCT AND COMPANY IDENTIFICATION** Product name : Amygdalin Product Number : CN000359 Brand : PUSH : Chengdu Push Bio-technology Co., Ltd. Company No.8 West Wuke second road, Wuhou District, Chengdu City, Sichuan Province, China Telephone : 86-28-85370565-215 Fax : 86-28-85370565-777 Emergency Phone #: 86-28-85370565-215

### 2. HAZARDS IDENTIFICATION

#### **OSHA Hazards**

Target Organ Effect, Harmful by ingestion.

#### Target Organs

Central nervous system, Heart, Blood.

#### GHS Label elements, including precautionary statements

Pictogram



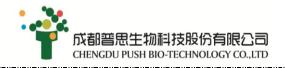
Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed.

Precautionary statement(s)



P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if
	you feel unwell.
P330	Rinse mouth.
P501	Dispose of contents/container to an approved waste disposal
	plant.
HMIS Classific	ation
Health hazard:	2
Flammability:	0
Physical hazar	ds: 0
NFPA Rating	
Health hazard:	2
Fire:	0
Reactivity Haz	ard: 0
Potential Healt	h Effects
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	Harmful if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	Amygdalin
CAS#:	29883-15-6
Formula:	$C_{20}H_{27}NO_{11}$
Molecular Weight:	457.432



## 4. FIRST AID MEASURES

#### **General advice**

Consult a doctor.

Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a

doctor.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

doctor.

### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure

adequate ventilation. Evacuate personnel to safe areas.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### Methods and materials for containment and cleaning up



Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for

preventive fire protection.

#### Conditions for safe storage

Keep container tightly closed.

Recommended storage temperature: 2 - 8°C

Keep in a dry place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99(US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the solemeans of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Tightly sealed goggles.

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.



#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after

handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Appearance:**

White solid

#### Safe data

рН	no data available
Melting point	223-226 °C
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data availa <mark>ble</mark>
Lower explosion limit	no data availa <mark>ble</mark>
Upper explosion limit	no data available
Water solubility	no data available
Solubility	Methanol, Water, Acetontrile

### 10. STABILITY AND REACTIVITY

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Conditions to avoid**

no data available

#### Materials to avoid

Strong oxidizing agents, Strong acids, Strong bases.

#### Hazardous decomposition products

Other decomposition products - no data available.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx).

### **11**. TOXICOLOGICAL INFORMATION

#### Acute toxicity data

Type of test	Route	Species	Dose
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LD <sub>Lo</sub>	Oral	Human - infant	50 mg/kg
LD <sub>50</sub>	Oral	Rodent - rat	405 mg/kg
LD <sub>50</sub>	Oral	Rodent - mouse	443 mg/kg
LD <sub>Lo</sub>	Oral	Mammal - dog	100 mg/kg
LD <sub>Lo</sub>	Oral	Primate - monkey	167 mg/kg

#### Other multiple dose toxicity data

Type of test	Route	Species	Dose
TD <sub>Lo</sub>	Oral	Rodent - rat	6 gm/kg/30D-I

#### Tumorigenic data

no data available

#### Mutation data

Type of test	System	Dose
Heat mediated appay	Rodent - mouse Bacteria -	250 mg/kg
Host-mediated assay	Salmonella typhimurium	

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitization

no data available

#### **Reproductive toxicity**

Type of test	Route	Species	Dose
TD <sub>Lo</sub>	Oral	Rodent - hamster	300 mg/kg

#### Specific target organ toxicity - single exposure (GHS)

no data available

#### Specific target organ toxicity - repeated exposure (GHS)

no data available

#### **Aspiration hazard**

no data available

#### Potential health effects

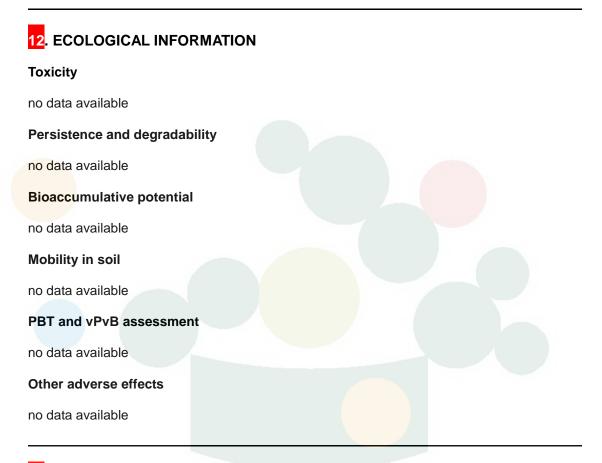
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.	
Ingestion	Harmful if swallowed.	
Skin	May be harmful if absorbed through skin. May cause skin irritation.	
Eyes	May cause eye irritation.	

#### Signs and Symptoms of Exposure

Always have on hand a cyanide first-aid kit, together with proper instructions., The onset of



symptoms is generally delayed pending conversion to cyanide., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



## 13. DISPOSAL CONSIDERATIONS

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.



#### DOT (US)

Not dangerous goods



#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

# 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Target Organ Effect, Harmful by ingestion.

#### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL

lists.

Benzeneacetonitrile, α -[(6-O-β -D-glucopyranosyl-β -D-glucopyranosyl)oxy]-, (α R)-

CAS-No. 29883-15-6

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA

Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS

numbers that exceed the thresh

(De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

Benzeneacetonitrile,  $\alpha$  -[(6-O- $\beta$  -D-glucopyranosyl- $\beta$  -D-glucopyranosyl)oxy]-, ( $\alpha$  R)-

CAS-No. 29883-15-6

#### New Jersey Right To Know Components

Benzeneacetonitrile,  $\alpha$  -[(6-O- $\beta$  -D-glucopyranosyl- $\beta$  -D-glucopyranosyl)oxy]-, ( $\alpha$  R)-



CAS-No. 29883-15-6

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# 16. OTHER INFORMATION

This MSDS 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 damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.