

# Material Safety Data Sheet

Version 1.0

Revision Date 11/20/2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Anhydrous citric acid

Product Number : CN000568

Brand : PUSH

Company : Chengdu Push Bio-technology Co., Ltd.  
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

Irritant. Toxic to aquatic life. Carcinogen.

### GHS Label elements, including precautionary statements

Pictogram



Signal word **Danger**

Hazard statement(s)

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

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H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and
P234	understood.
P260	Keep only in original container.
P261	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Avoid breathing dust/fume/gas/mist/vapours/spray.
P270	Wash skin thoroughly after handling.
P272	Do not eat, drink or smoke when using this product.
P273	Contaminated work clothing should not be allowed out of the workplace.
P280	Avoid release to the environment.
P281	Wear protective gloves/eye protection/face protection.
P285	Use personal protective equipment as required.
P301+P312	In case of inadequate ventilation wear respiratory protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you
P302+P352	feel unwell.
P304+P341	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep
P305+P351+P338	at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove
P308+P313	contact lenses, if present and easy to do. Continue rinsing.
P314	IF exposed or concerned: Get medical advice/attention.
P321	Get medical advice/attention if you feel unwell.
P330	Specific treatment (see supplemental first aid instructions on this label).
P332+P313	Rinse mouth.

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P333+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P342+P311	IF eye irritation persists: Get medical advice/attention.
P362	IF experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P363	Take off contaminated clothing.
P390	Wash contaminated clothing before reuse.
P391	Absorb spillage to prevent material damage.
P404	Collect spillage.
P405	Store in a closed container.
P501	Store locked up.
	Dispose of contents/container to an approved waste disposal plant.

#### HMIS Classification

Health hazard: 2

Flammability: 0

Physical hazards: 0

#### NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May causes skin irritation.

**Eyes** May causes eye irritation.

**Ingestion** May be harmful if swallowed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Name:** Anhydrous citric acid

**CAS#:** 77-92-9

**Formula:**  $C_6H_8O_7$

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**Molecular Weight:** 192.123

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## **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.

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## **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.

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## **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.

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## **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: - 20 °C

Keep in a dry place.

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## **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 sole means 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**

Face shield and safety glasses.

#### **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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

White solid

### Safe data

pH	no data available
Melting point	153 °C
Boiling point	142-143°C
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available
Solubility	Methanol, Water

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents.

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity data

No.8 Wuke West Second Road, Wuhou district, Chengdu, Sichuan, China, 610045

Tel: 86-28-85370565-215

Fax: 86-28-85370565-777

Website: <http://www.push-herbchem.com>

Type of test	Route	Species	Dose
LD <sub>50</sub>	Oral	Rodent - rat	3 gm/kg
LD <sub>50</sub>	Intraperitoneal	Rodent - rat	290 mg/kg
LD <sub>50</sub>	Subcutaneous	Rodent - rat	5500 mg/kg
LD <sub>50</sub>	Oral	Rodent - mouse	5040 mg/kg
LD <sub>50</sub>	Intraperitoneal	Rodent - mouse	903 mg/kg
LD <sub>50</sub>	Subcutaneous	Rodent - mouse	2700 mg/kg
LD <sub>50</sub>	Intravenous	Rodent - mouse	42 mg/kg
LD <sub>Lo</sub>	Oral	Rodent - rabbit	7 gm/kg
LD <sub>50</sub>	Intravenous	Rodent - rabbit	330 mg/kg

**Other multiple dose toxicity data**

no data available

**Tumorigenic data**

no data available

**Mutation data**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Reproductive toxicity**

no data available

**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**

<b>Inhalation</b>	May be harmful if inhaled. May causes respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May causes skin irritation.
<b>Eyes</b>	May causes eye irritation.

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### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION**

**OSHA Hazards**

Irritant. Toxic to aquatic life. Carcinogen.

**DSL Status**

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

1,2,3-Propanetricarboxylic acid, 2-hydroxy-

CAS-No. 77-92-9

**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**

1,2,3-Propanetricarboxylic acid, 2-hydroxy-

CAS-No. 77-92-9

**New Jersey Right To Know Components**

1,2,3-Propanetricarboxylic acid, 2-hydroxy-

CAS-No. 77-92-9

#### **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.

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#### **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.