

## NINGXIA TAIKANG PHARMACEUTICAL CO.,LTD.

### SAFETY DATA SHEET

According to 1907/2006/EC, article 31(REACH) and according to 1272/2008/EC(CLP)

DICYANDIAMIDE, 99.7%

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARTION AND COMPANY/UNDERTAKING

<b>PRODUCT NAME</b>	DICYANDIAMIDE
<b>SYNONYMS, TRADE NAMES</b>	Cyanoguanidine, Dicyanodiamide
<b>USES</b>	
<b>SUPPLIER</b>	Ningxia Taikang Pharmaceutical Co., Ltd Pingluo Industrial Park Ningxia China
<b>EMERGENCY TELEPHONE</b>	

#### 2 HAZARDS IDENTIFICATION

##### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.

##### 2.2 Label elements

GHS Label elements, including precautionary statements.

##### 2.3 Other hazards -none

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

NAME	EC- No	Cas-No	Content
------	--------	--------	---------

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

DICYANDIAMIDE

207-312-8

461-58-5

≥99.7%

No components need to be disclosed according to the applicable regulations.

## 4 FIRST-AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

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

#### In case of skin contact

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

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

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

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## 5 FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

## 6 ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid

breathing dust.

For personal protection see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

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

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

### **6.4 Reference to other sections**

For disposal see section 13.

## **7 HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### **7.3 Specific end use(s)**

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

## **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

**Components with workplace control parameters**

### **8.2 Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril. (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril. (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

**9 PGYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

A	Appearance	Form : powder Colour : white
B	Odour	no data available
C	Odour Threshold	no data available
D	pH	no data available
E	Melting point/freezing point	Melting point/range: 208 -211 °C -lit
F	Initial boiling point and boiling range	no data available
G	Flash point	no data available
H	Evaporation rate	no data available
I	Flammability (solid, gas)	no data available
J	Upper/lower flammability or explosive limits	no data available
K	Vapour pressure	no data available
L	Vapour density	no data available
M	Relative density	1,400 g/cm <sup>3</sup> at 20 °C
N	Water solubility	no data available
O	Partition coefficient n-octanol/water	no data available
P	Auto-ignition temperature	no data available
Q	Decomposition temperature	no data available
R	Viscosity	no data available
S	Explosive properties	no data available
T	Oxidizing properties	no data available

**9.2 Other safety information**

Bulk density 0.40 ~ 0.60 g/l

**10 STABILITY AND REACTIVITY****10.1 Reactivity**

no data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

no data available

## 10.4 Conditions to avoid

no data available

## 10.5 Incompatible materials

Strong acids, Strong bases

## 10.6 Hazardous decomposition products

Other decomposition products -no data available

In the event of fire: see section 5

# 11 TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral -mouse - > 4000.000 mg/kg

LD50 Dermal -rabbit - > 3000.000 mg/kg

### Skin corrosion/irritation

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

no data available

### Specific target organ toxicity -single exposure

no data available

**Specific target organ toxicity -repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: ME9950000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish LC50 -Oncorhynchus mykiss (rainbow trout)  
-7.700 mg/l -96 h  
Toxicity to daphnia and other aquatic invertebrates EC50 -Daphnia magna (Water flea)  
-3.177 mg/l -48 h

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

no data available

## 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

7

#### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

## 14 TRANSPORT INFORMATION

### GENERAL

The product is not covered by international regulations on the transport of dangerous goods.

Not regulated in IMO/IMDG.

## 15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## 16 OTHER INFORMATION

ISSUED BY: EHS Manager

REVISION DATE: 18/10/2018