GuangZhou JBY enzyme Co.,Ltd #1268 FangYuan International Building,XingTang Town, ZengCheng District, GuangZhou, Guangdong,China

# Tel:+86-20-29011865 Fax:+86-20-32168151

MATERIAL SAFETY DATA SHEET
Neutral Cellulase Powder DJ-160

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

: Neutral Cellulase Powder

Product DJ-160

Chemical name : Cellulase
Synonyms : Not applicable
Molecular formula : Not applicable

**Substance/preparation**: This product is a concentrated powder cellulase enzyme preparation.

**Use of the substance/** : for wide temperature denim abrasion process

**Preparation** 

**Company** : GuangZhou JBYenzyme Co.,Ltd

: #1268 FangYuan International Building,XingTang Town, ZengCheng

Address District, GuangZhou, Guangdong, China

Tel: +86 20 29011865 Fax: +86 20 32168151

: Tel:+86

Emergency telephone 2029011865

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical name</b>	CAS no.	EINECS no.	IUB no. Class	<u>ification</u>	R-Phrases	<u>%</u>
Cellulase	9012-54-8	232-734-4	3.2.1.4	Xn	42	>30

For the complete text of the R-phrases see Section 16. Occupational Exposure Limit(s), if available, are listed in Section 8.

# 3. HAZARD IDENTIFICATION

×

Labelling :

**HARMFUL** 

**Risk phrases** : R42: May cause sensitization by inhalation.

Physical/chemical hazards
Environmental hazards
Human health hazards

The data available do not support any physical or chemical hazard. The data available do not support any environmental hazard. Inappropriate handling may induce sensitization and may cause

allergic type reactions in sensitized individuals.

Prolonged skin contact may cause minor irritation.

Symptoms of (over)exposure: See Section 4.

#### 4. FIRST AID MEASURES

Inhalation

**Effects** : May cause respiratory allergies. Symptoms may occur after a latency

period has elapsed.

**Symptoms**: Shortness of breath, wheezing, and laboured coughing.

First Aid : Remove victim from area of exposure. If symptoms of irritation or

respiratory allergy occur, consult a doctor.

Preparation date: 01/01/2019 Date of issue: 01/01/2019 Page 1 of 5

GuangZhou JBY enzyme Co.,Ltd #1268 FangYuan International Building,XingTang Town, ZengCheng District, GuangZhou, Guangdong, China

Tel:+86-20-29011865 Fax:+86-20-32168151

# **MATERIAL SAFETY DATA SHEET**

Neutral Cellulase Powder DJ-160

Skin

**Effects** : May be irritating.

Symptoms : Redness.

First Aid : Remove victim from area of exposure. If symptoms of irritation occur,

consult a doctor.

Eyes

**Effects** : May be irritating.

Symptoms : Redness

First Aid : Wash out with plenty of water with the eyelid held wide open for at least

15 minutes. Consult a doctor in event of any complaints.

Ingestion

**Effects** : May be irritating.

**Symptoms**: Effects or symptoms are not known.

First Aid : Rinse mouth and throat thoroughly with water. Consult a doctor in event

of any complaints.

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing measures** 

Suitable : Water, foam, halones.

Not suitable : None.

Thermal (de)composition products :

**Protective equipment** : Self-contained breathing apparatus.

Specific hazards : Inhalation of aerosol may result in sensitization. Avoid any

contact with the substance.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Handle in closed systems and use local exhaust ventilation when

there is a potential for aerosol release. Use appropriate personal protection (see Section 8). Avoid any contact with the powder.

Provide for sufficient ventilation.

**Environmental precautions** : Do not allow to enter natural waters or soil.

Methods for cleaning up: Use appropriate personal protection (see Section 8). Avoid any contact

with the powder. Avoid high pressure washing (formation of

aerosols). Provide for sufficient ventilation.

See Sections 8 and 13

### 7. HANDLING AND STORAGE

**Handling** : Use appropriate personal protection (see Section 8). Avoid any contact

with the powder. Avoid the formation of aerosols and dust from dry

product.

Ventilate areas.

Storage : Keep in a cool, dry place.

**Specific use(s)** : See Section 1: use of the substance/preparation.

Preparation date: 01/01/2019 Date of issue: 01/01/2019 Page 2 of 5

GuangZhou JBY enzyme Co.,Ltd #1268 FangYuan International Building,XingTang Town, ZengCheng District, GuangZhou, Guangdong,China

Tel:+86-20-29011865 Fax:+86-20-32168151

## **MATERIAL SAFETY DATA SHEET**

Neutral Cellulase Powder DJ-160

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

**MAC value** : No occupational exposure limits are known.

Other exposure limits : None.

Occupational Exposure Controls: Use closed systems and processes for handling enzymes.

Supplement with local exhaust ventilation.

**Respiratory protection**: Wear suitable respiratory protection in case of aerosol

formation. P3 filters are recommended.

**Hand protection** : Practical experience has shown that gloves of nitrile rubber,

butyl rubber, latex, and polyvinyl chloride (PVC) offer sufficient

protection.

Breakthrough time : Replace damaged gloves.

**Eye protection** : Safety glasses, goggles, or face shield.

**Skin protection** : Protective clothing.

**Environmental exposure controls**: Avoid dispersion to the environment.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :Powder Colour : light yellow

**Odour** : Slight fermentation odour.

pH : 7.0-8.0. Solubility in water : Soluble.

#### 10. STABILITY AND REACTIVITY

**General** : Stable under storage conditions (see Section 7).

Conditions to avoid : None.

Materials to avoid : None.

Hazardous decomposition products : None.

#### 11. TOXICOLOGICAL INFORMATION

Irritation

Eyes : May be irritating.Skin : May be irritating.Respiratory system : May be irritating.

**Acute toxicity** 

Oral : LD<sub>50</sub> rat: >5000 mg/kg.

Dermal : Information not available.

Inhalation : Information not available.

**Chronic toxicity** 

Oral: Information not available.Dermal: Information not available.Inhalation: Information not available.

Other Information : Inhalation: Repeated Inhalation of enzyme aerosol, resulting from

improper handling, may induce sensitization and may cause

allergic type reactions in sensitized individuals.

Skin: Prolonged or repeated skin contact may be irritating.

Oral: Not toxic.

Carcinogenicity : Information not available.

**Mutagenicity** : Not mutagenic.

Reproduction toxicity: Information not available.

## 12. ECOLOGICAL INFORMATION

Preparation date: 01/01/2019 Date of issue: 01/01/2019 Page 3 of 5

GuangZhou JBY enzyme Co.,Ltd

#1268 FangYuan International Building, XingTang Town, ZengCheng District, GuangZhou, Guangdong, China Tel:+86-20-29011865 Fax:+86-20-32168151

## MATERIAL SAFETY DATA SHEET

Neutral Cellulase Powder DJ-160

**Ecotoxicity** : The preparation is believed not to be dangerous to the environment

> with respect to mobility, persistence and degradability, bioaccumulative potential, aquatic toxicity and other data relating to

eco-toxicity.

Persistence- degradability : The substance is readily biodegradable.

Bioaccumulative potential : Bioaccumulative in aquatic organisms is not expected.

Other adverse effects

: Not applicable. LC50>100mg/l,

**Biodegradability value: 100%** 

# 13. DISPOSAL CONSIDERATIONS

Methods of disposal: No special disposal methods required, except to be in accordance with

current authority regulations.

#### 14. TRANSPORT INFORMATION

DOT:

DOT Status: Not hazardous. DOT Shipping Name: None

**DOT Reportable Quantity (lbs):** Not applicable.

DOT Packing Group: Not applicable.

Harmonized Tariff Code: 3507.90.9000 (for enzymes)

ICAO/IATA: Not applicable. IMDG: Not applicable.

Special precautions : None known

Proper shipping name : Not a dangerous goods according to transport regulations. National transport regulations: No additional national transport regulations are known to the

supplier.

#### 15. REGULATORY INFORMATION

#### Labelling according to Directive 67/548/EC and 1999/45/EC.

Contains : Cellulase (powder enzyme).

This product is labelled by the supplier in accordance to the EC regulations. This product is hazardous within the meaning of directive 88/379/ECC.

HARMFUL

: Xn

Symbol Risk phrases

: May cause sensitization by inhalation. : R42

Safety phrases

: Do not breathe dust. : S22 : Do not breathe spray. S23

Avoid contact with skin. S24

S36/37 : Wear suitable protective clothing and gloves.

# **16. OTHER INFORMATION**

Hazardous Materials Identification System ("HMIS") Hazard Ratings:

Health: 2 Flammability: 1 Reactivity: 0

Personal Protection: B

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the

Preparation date: 01/01/2019 Date of issue: 01/01/2019 Page 4 of 5  $GuangZhou\ JBY\ enzyme\ Co., Ltd\\ \#1268\ FangYuan\ International\ Building, XingTang\ Town\ ,\ ZengCheng\ District,\ GuangZhou\ ,\ Guangdong\ , China\ Tel: +86-20-29011865\ Fax: +86-20-32168151$ 

# **MATERIAL SAFETY DATA SHEET**

Neutral Cellulase Powder DJ-160

control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications, for which please refer to our technical data sheet.

References: MSDS prepare norms (2001/58/EC)

Preparation date: 01/01/2019 Date of issue: 01/01/2019 Page 5 of 5