

# MATERIAL SAFETY DATA SHEET

## BAYSTONE SY-51

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Date of Revision : 01/11/2007

Date of Construction : 01/11/2007

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#### PRODUCT IDENTIFICATION

Product Name : BAYSTONE SY-51

Chemical Name : Proteins.

Synonyms : Cellulase

Chemical Family : Enzyme

Molecular Formula : n.a.

Product Use : Denim

CAS N° : 9012-54-8

IUB number : 3.2.1.4.

**Read the entire MSDS for the complete hazard evaluation of this product**

### 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** Cause skin and eye irritation.

#### POTENTIAL HEALTH EFFECTS

May cause sensitization by inhalation and skin contact

### 3. COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS N°	Hazard symbol(s)/R-pharse(s)	%
Enzyme protein		Xn 42/43	-
Cellulase	9012-54-8	Xn 42	-

#### **4. FIRST AID MEASURES**

##### **General information**

Inhalation: In case of complaints get medical treatment.

Skin Contact: Wash off with water and soap. Consult a physician if irritation persists.

Eye Contact: Flush eyes thoroughly with a large amount of water and consult a physician.

Ingestion: Call a physician in case of indisposition.

#### **5. FIRE FIGHTING MEASURES**

##### **FLAMMABLE PROPERTIES**

##### **SUITABLE EXTINGUISHING MEDIA**

Foam, dry chemical, carbon dioxide, water spray.

##### **UNSUITABLE EXTINGUISHING MEDIA FOR SAFETY REASONS**

Full water jet

##### **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING**

Wear self-contained breathing apparatus.

#### **6. ACCIDENTAL RELEASE MEASURES**

Information in this section is for responding to spills, leaks or releases in order to prevent or minimize the adverse effects on persons, property and the environment. There may be specific reporting requirements associated with spills, leaks or releases, which change from region to region. The responsibility of reporting lies directly with the handlers of the substance.

##### **Precautions measures related to people**

Avoid dust formation. Use personal protective clothing. Use breathing apparatus if exposed to vapors/dust/mist/aerosol.

##### **Environmental protective measures**

Prevent product from getting into drains/surface water/groundwater.

##### **Methods of cleaning / adsorption**

Take up mechanically. Dispose of in accordance with regulations.

## 7. HANDLING AND STORAGE

### HANDLING

#### Instructions on safe handling

Avoid the formation and deposition of dust.

#### Information on fire and explosion protection

Take precautionary measure against static discharges Dust can form an explosive mixture with air.

### STORAGE

#### Requirements for storage areas and containers

Keep containers tightly closed Storage: cool and dry.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommendations listed in this section indicate the type of equipment, which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective device at your workplace.

### Do not inhale dust.

#### ENGINEERING CONTROLS

Engineering Controls: General exhaust is acceptable. Local exhaust ventilation preferred. Make up air should be supplied to balance air that is remove by local or general exhaust ventilation. Ventilated low lying areas such as sumps or pits where dense vapours may collect.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

##### Hygiene measures

Follow the usual good standards of occupational hygiene. Remove contaminated clothing. Store work clothing separately.

##### Respiratory protection

Respiratory protection in case of dust formation, short term: filter appliance, filter P3

##### Hand protection

Rubber gloves

##### Eye Protection

Tightly fitting goggles

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Powder.
Appearance and Odor	: Powder with brown granulates
Odor Threshold (ppm)	: Sight fermentation odor.
Boiling Range (Deg. Celsius)	: n.a.
Melting/Freezing Point (Deg Celsius)	: n.a.
Vapor Pressure (mmHg at 20 °C)	: n.a.
Vapor Density	: n.a.
Relative Density	: Not determined
Bulk Density	: Not determined
Viscosity	: n.a.
Evaporation Rate (Butyl Acetate = 1.0)	: n.a.
Water Solubility	: 100 g/l
Volatility (%) by Volume	: n.a.
pH (1 g/l)	: 6 approx.

Coefficient of Water/Oil Distribution	: n.a.i.
Volatile Organic Compounds (VOC)	: n.a.
Further information	: Dust explosion are generally to be expected with dust-forming organic products.

## 10. STABILITY AND REACTIVITY

### Thermal decomposition

No decomposition when used as directed

### Hazardous reactions

No hazardous reactions known

### Hazardous decomposition products

None when used as directed

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity

There are no toxicological data available for this product.

### Irritant effect on the skin

If contact with skin is prolonged and/or frequent, irritation cannot be excluded.

Irritant effect on the eyes

**Contact with the eyes may cause irritation.**

### Further information on toxicology

Allergies may occur if dust are inhaled. Carefully avoid skin and eye contact and inhalation of product dust.

## 12. ECOLOGICAL INFORMATION

Information on elimination (persistence and degradability)

### Ecotoxicological effect

### Further information on ecology

According to present knowledge, no unfavorable ecological effects are to be expected because of the consistency of the product.

## 13. DISPOSAL CONSIDERATIONS

### Product

Waste is non-hazardous. It should be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

### Uncleaned packing

Contaminated packing should be emptied optimally and after appropriate professional cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of professionally.

Uncontaminated packaging may be taken for recycling.

### Code of waste EWC

Waste from textiles industry – non-halogenated wastes from dressing and finishing. Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

## 14. TRANSPORTATION INFORMATION

### Further information

Not a dangerous good within the meaning of transportation regulations.

## 15. REGULATORY INFORMATION

### LABELLING, ACCORDING WITH EC DIRECTIVES

Requires labelling

Hazardous component(s) for labelling

Contains

Enzyme proteins.

Cellulase

Hazard symbol(s)

R-phrases)	Xn 42/43	Harmful May cause sensitization by inhalation and skin contact.
S-phrases)	22 23 24	Do not breathe dust. Do not breathe spray. Avoid contact with skin

Status of Registration

EINECS/ELINCS: listed

## 16. OTHER INFORMATION

None

### ADDITIONAL INFORMATION AND SOURCES USED

Written By : Textile Auxiliaries Chemicals Plant Management

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n.a.: not applicable n.a.i.: not available information