

# Safety Data Sheet

in accordance with regulation (EC) No 1907/2006 (EC No 2015/830)



## Lava® Cell NDF

000010040722

Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 1/11

### SECTION 1: Identification of the substance/preparation and company

#### 1.1 Product identifier

**Lava® Cell NDF**

#### 1.2 Relevant Identified uses of the substance or mixture and uses advised against

Use pattern :

Textile auxiliary

#### 1.3 Details of the supplier of the safety data sheet

DyStar Colours Distribution GmbH

Am Prime Park 10-12

D - 65479 Raunheim

Telephone no. +49 6142 4072 3172

Telefax no. +49 6142 4072 3000

MSDS@DyStar.com

#### 1.4 Emergency telephone number

Emergency telephone number: +49 2365 4984140

### SECTION 2: Hazards identification

#### 2.1 Classification of the Substance or Mixture

**According to regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixtures**

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

Classification of the Substance or Mixture

Respiratory or skin sensitization: Respiratory Sensitization, Cat. 1B

#### 2.2 Label elements

Pictograms:

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## Lava® Cell NDF

000010040722

Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 2/11



health hazard

Signal word:

Danger

contains:

cellulase

Hazard Statements:

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

Precautionary Statements (Prevention):

P260 Do not breathe spray.

P285 In case of inadequate ventilation wear respiratory protection.

Precautionary Statements (Response):

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Storage):

Precautionary Statements (Disposal):

P501 Dispose of contents/container to waste treatment in accordance with national regulations.

### 2.3 Other hazards

If applicable in this section are given hazards which are not part of the overall classification but can contribute to the hazards which may be associated with the substance or mixture.

not applicable

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## SECTION 3: Composition/information on ingredients

# Safety Data Sheet

in accordance with regulation (EC) No 1907/2006 (EC No 2015/830)



## Lava® Cell NDF

000010040722

Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 3/11

### 3.1 Substances

not applicable

### 3.2 Mixtures

#### Chemical characterization

Enzyme, aqueous preparation

#### Hazardous Ingredients (GHS) according Regulation (EC) 1272/2008

cellulase			
Content:	< 5 %	Resp. Sens. 1B	H334
EC Number	232-734-4		
EC index no. :	647-002-00-3		
CAS number:	9012-54-8		

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: Take off immediately all contaminated clothing.

After inhalation: Upon inhalation of aerosol/vapour/dust: Take the patient into the fresh air; if there is difficulty in breathing, medical advice is required.

After contact with skin: Cleansing with plenty of water, soap or other non-irritating cleansing agents.

After contact with eyes: Contamination of the eyes must be treated by thorough irrigation with water, with the eyelids held open. Eventually a doctor (or eye specialist) should be consulted.

After ingestion: If the product is swallowed, the patient must at once drink water repeatedly, if possible with the addition of activated carbon. If the patient feels unwell, seek medical advice.

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

Please see hazard statements in section 2.2 if given and information in this section if stated.

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

Please see precautionary statements in section 2.2 as well as first aid information in this section if stated.

## SECTION 5: Fire-fighting measures

# Safety Data Sheet

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## Lava® Cell NDF

000010040722

Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 4/11

### 5.1 Extinguishing media

Suitable extinguishing media: water mist, foam, dry powder, CO<sub>2</sub>

Extinguishing media that must not be used for safety reasons: not determined

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

not determined

### 5.3 Advice for firefighters

Special protective equipment for firefighting: Firemen have to wear self-contained breathing apparatus.

Further information: Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions: Use the necessary personal protection equipment during any work.

### 6.2 Environmental precautions

Environmental precautions: Do not empty into drains or waters.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up/taking up: Take up with absorbent material and fill into a closable container.

### 6.4 Reference to other sections

Additional information: For further disposal measures see chapter 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling: Wear prescribed protective clothing.  
Pay attention to safety rules.

Advice on protection against fire and explosion: not necessary

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

# Safety Data Sheet

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## Lava® Cell NDF

000010040722

Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 5/11

Requirements for storage rooms and vessels: Requirements on the storage quality according to WGK: 1

Advice on storage compatibility: Corresponds to storage class: compare point 7.2.4

Further information on storage conditions: Recommended storage temperature: +3 °C to +25 °C Provide good ventilation. Protect from heat and direct sunlight. Store product cool, but not under +3 °C. Cannot be used after freezing effects. Do not store product under +3 °C and over +35 °C.

Storage class: 12 Non-combustible liquids

Storage stability: not determined

### 7.3 Specific end use(s)

not determined

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Additional advice on system design: De-aeration and cleaning of exhaust air should be provided.

Ingredients with occupational exposure limits to be monitored

The product does not contain components which working place concentration limits, need to be monitored.

### 8.2 Exposure controls

General protective measures: Avoid contact with eyes and skin.

Keep away from food, drink and animal feeding stuffs.

Wash hands before breaks and at end of work and use skin-protecting ointment.

When using do not eat, drink or smoke.

We recommend the following protective equipment:

Hygiene measures: Do not eat, drink or smoke at work.

Wash hands before breaks and at end of work and use skin-protecting ointment.

Keep away from food and drink stuffs.

Respiratory protection: Provide good ventilation.

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## Lava® Cell NDF

000010040722

Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 6/11

Hand protection:	Wear suitable gloves e.g. of nitrile rubber ( observe permeation time ) In the event of contamination, change protective gloves immediately. Avoid skin contact with the wetted surfaces of the protective gloves.
Eye protection:	tightly fitting safety glasses
Body protection:	Working clothes

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	brown
Odour:	characteristic smell
Melting point:	not determined
Boiling range :	approx. 100 °C
Flash point:	> 100 °C
Ignition temperature:	> 100 °C
self ignition :	not self-igniting
Flammability:	not determined
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Vapour pressure:	not determined
Density:	approx. 1,05 g/cm <sup>3</sup> (20 °C) Method : DIN 51757
Solubility in water:	(20 °C) miscible
pH value:	approx. 5 (20 °C) undiluted

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replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 7/11

Octanol/water partition coefficient (log not determined  
Pow):

Viscosity (dynamic) : not determined

Viscosity (kinematic) : not determined

Viscosity (flow time) : not determined

### 9.2 Other information

Combustion number: not determined

Dust explosion class: not determined

Bulk density: not determined

Further information (phys.-chem.): not necessary

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.2 Chemical stability

Thermal decomposition: No thermal decomposition when stored and handled correctly.

### 10.3 Possibility of hazardous reactions

Hazardous reactions: No hazardous reaction when used as directed.

Hazardous decomposition products: not applicable

### 10.4 Conditions to avoid

For avoidable conditions: not necessary

### 10.5 Incompatible materials

For avoidable materials: not necessary

### 10.6 Hazardous decomposition products

not applicable

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## Lava® Cell NDF

000010040722

Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 8/11

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute oral toxicity:	LD50 > 2.000 mg/kg (rat) Method : Literature
Acute inhalation toxicity:	not determined
Acute dermal toxicity:	not determined
Irritant effect on skin:	non-irritant (rabbit)
Irritant effect on eyes:	non-irritant (rabbit eye)
Sensitization:	May cause sensitization by inhalation.
Repeated dose toxicity:	not determined
Mutagenicity:	No indication of mutagenic effects.
Teratogenicity:	not necessary
Carcinogenicity:	not necessary

Remarks : The product is not harmful to health when handled appropriately and used as prescribed, according to our experience and knowledge. Negative physical reactions are not caused on the personnel when handled appropriately. May cause sensitization by skin contact.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Fish toxicity:	LC50 > 100 mg/l Method : OECD 203
Daphnia toxicity:	EC50 > 100 mg/l (Daphnia magna) Method : OECD 202
Algae toxicity:	not determined
Bacteria toxicity:	EC50 > 100 mg/l (activated sludge) Method : DIN/EN/ISO 8192



# Safety Data Sheet

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## Lava® Cell NDF

000010040722

Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 9/11

Remarks: Product does not add to the AOX-value of the sewage. (DIN EN 1485)  
The product does not contain heavy metals in concentrations of concern for waste water.  
According to recipe product contains no AOX-containing substances.  
Self-commitment of TEGEWA on the classification of textile chemicals in accordance to their relevance to waste-water : ARS I : Less relevant to waste-water

### 12.2 Persistence and degradability

Physico-chemical eliminability: not determined

Biodegradability:

If regulations are followed when introducing effluent into biological waste water treatment plants, no adverse effect on the degradation activity of activated sludge is to be expected.

Behaviour in environmental compartments:: not determined

Dissolved Organic carbon (DOC): not determined

Chemical oxygen demand (COD) : not determined

Biochemical oxygen demand (BOD5): not determined

### 12.3 Bioaccumulative potential

not determined

### 12.4 Mobility in soil

not determined

### 12.5 Results of PBT and vPvB assessment

not determined

### 12.6 Other adverse effects

not determined

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product: May be disposed of according to the local regulations (systematic dump or burning).

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## Lava® Cell NDF

000010040722

Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 10/11

European Waste Catalogue (EWC) code: 040215 wastes from finishing other than those mentioned in 04 02 14

Uncleaned packaging: Empty totally and clean. Water with addition of cleaning media. ,

### SECTION 14: Transport information

ADR	Non-dangerous goods
ADNR	Non-dangerous goods
RID	Non-dangerous goods
IMDG	Non-dangerous goods
IATA_C	Non-dangerous goods
IATA_P	Non-dangerous goods

#### 14.1 UN number

See above entry at the respective regulation.

#### 14.2 UN proper shipping name

See above entry at the respective regulation.

#### 14.3 Transport hazard class(es)

See above entry at the respective regulation.

#### 14.4 Packing group

See above entry at the respective regulation.

#### 14.5 Environmental hazards

See above entry at the respective regulation.

#### 14.6 Special precautions for user

Keep separated from foodstuffs.

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No transport in bulk according to Annex II of MARPOL 73/78 and the IBC code foreseen for this substance or mixture.:

### SECTION 15: Regulatory information

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## Lava® Cell NDF

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Version 2.4 / D / EN Revision Date: 04.07.2018

replaces version: 2.3 on 18.08.2017

generated on: 19.12.2007

Page 11/11

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

TA-Luft (Ger.) :                      number/class : Classification according to the German Technical Guideline-Air: Number 5.2.5 - Organic gases, general guidance

Water Hazard Class (Ger.) :      WGK 1 - slightly hazardous to water WGK = Classification in accordance with the German Water Resources Act Annex 1 AwSV (Germany) dated April, 18th 2017

Other regulations: Self-commitment of TEGEWA on the classification of textile chemicals in accordance to their relevance to waste-water : ARS I : Less relevant to waste-water

### 15.2 Chemical safety assessment

not determined

## SECTION 16:      Other information

Text of all shortcuts referred to in sections 2 and 3:

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

Resp. Sens. 1B      Respiratory or skin sensitization: Respiratory Sensitization, Cat. 1B

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.