

Safety data sheet

in accordance with regulation (EC) No 1907/2006 (EC No 453/2010)



Lava Cell NDF

PLCA60

000010040722

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Version 2.2 / D / EN Revision Date: 28.01.2015

replaces version: 2.1 on 02.08.2013

generated on: 19.12.2007

SECTION 1: Identification of the substance/preparation and company

1.1 Product identifier

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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 sensitisation: Respiratory Sensitisation, Cat. 1B

Possible Hazards according Directive 67/548/EEC or 1999/45/EC

May cause sensitization by inhalation.

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2.2 Label elements

Pictograms:



health hazard

Signal word:

Danger

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

SECTION 3: Composition/information on ingredients

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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		

Hazardous Ingredients according Directive 1999/45/EC

cellulase

Content:	< 5 %	Hazard symbols: Xn
EC Number	232-734-4	R phrases: 42
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.

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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

5.1 Extinguishing media

Suitable extinguishing media: water mist, foam, dry powder, CO₂

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.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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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

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 Specific end use(s)

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.

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Respiratory protection :	Provide good ventilation.
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 g/cm ³ (20 °C) Method : DIN 51757
Solubility in water :	(20 °C) miscible
pH value :	approx. 5 (20 °C) undiluted

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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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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

12.2 Persistence and degradability

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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

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.
The product should not be allowed to reach either ground or open waters.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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. ,

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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

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

Labelling according Directive 67/548/EEC or 1999/45/EC:

Hazard symbols: Xn Harmful

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contains: cellulase

R42 : May cause sensitization by inhalation.

S23 : Do not breathe spray.

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 4 VwVwS (Germany) dated Mai, 17th 1999

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

This data sheet has to be accessible to the technical staff all the time.

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

Xn Harmful

42 May cause sensitization by inhalation.

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

Resp. Sens. 1B Respiratory or skin sensitisation: Respiratory Sensitisation, 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.