

## SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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### ISO-GRID® Cellulase

Revision 0  
Revision date 2018-11-28

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

<b>Product name</b>	ISO-GRID® Cellulase
<b>CAS No.</b>	9012-54-8
<b>EC No.</b>	232-734-4
<b>Index No.</b>	647-002-00-3
<b>Product code</b>	6853E

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

<b>Product Use</b>	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
<b>Description</b>	Intended for laboratory use only.

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

<b>Company</b>	Neogen Corporation
<b>Address</b>	620 Leshler Place Lansing MI 48912 USA
<b>Web</b>	www.neogen.com
<b>Telephone</b>	517-372-9200/800-234-5333
<b>Email</b>	regulatorysupport@neogen.com

##### 1.4. Emergency telephone number

<b>Emergency telephone number</b>	1-800-234-5333
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##### Further information


<b>Hotline(s):</b>	Medical: United States (1-800-498-5743), International (1-651-523-0318). Spill/CHEMTREC: United States (1-800-424-9300), International (1-703-527-3887).
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#### SECTION 2: Hazards identification

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

<b>2.1.2. Classification - GHS</b>	Resp. Sens. 1: H334;
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##### 2.2. Label elements

<b>Hazard pictograms</b>	
<b>Signal Word</b>	Danger

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## 2.2. Label elements

<b>Hazard Statement</b>	Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Precautionary Statement: Prevention</b>	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P284 - [In case of inadequate ventilation] wear respiratory protection.
<b>Precautionary Statement: Response</b>	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ .
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Cellulase	647-002-00-3	9012-54-8	232-734-4		90 - 100%	Resp. Sens. 1: H334;

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	May cause sensitization by inhalation. Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
<b>Eye contact</b>	Rinse immediately with plenty of water. Contact lenses should be removed.
<b>Skin contact</b>	After contact with skin, wash immediately with plenty of water or non-irritating soap. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	DO NOT INDUCE VOMITING unless advised to do so by a doctor. Never give anything by mouth to an unconscious person.

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

<b>Inhalation</b>	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Eye contact</b>	May cause eye irritation. Seek medical attention if irritation or symptoms persist.
<b>Skin contact</b>	May cause allergic reactions in susceptible people. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	Ingestion may cause nausea and vomiting. If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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## 5.2. Special hazards arising from the substance or mixture

	This product is not flammable. Use extinguishing media appropriate to the surrounding fire conditions.
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## 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

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

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Ensure
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## 6.1. Personal precautions, protective equipment and emergency procedures

adequate ventilation of the working area.

## 6.2. Environmental precautions

Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water.

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

Clean spillage area thoroughly with plenty of water. Do not flush into surface water.

## 6.4. Reference to other sections

See section 2, 8 & 13 for further information.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes, skin or clothing. Ensure adequate ventilation of the working area. Do not eat, drink or smoke in areas where this product is used or stored.

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

Keep refrigerated. Keep container tightly closed. Keep only in the original container.

## 7.3. Specific end use(s)

See Section 1.2 for further information.

## SECTION 8: Exposure controls/personal protection

## 8.2. Exposure controls



Appropriate engineering controls

Ensure adequate ventilation of the working area.

Individual protection measures

Use as appropriate: Protective clothing.

Eye / face protection

Use as appropriate: Suitable eye protection.

Skin protection - Hand protection

Use as appropriate: Chemical resistant gloves.

Respiratory protection

Wear: Suitable respiratory equipment.

Occupational exposure controls

Keep away from food, drink and animal feed and/ or feed products. Contaminated work clothing should not be allowed out of the workplace.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

<b>State</b>	Solid
<b>Color</b>	Off white
<b>Odor</b>	Odorless/Slight
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	Not applicable.
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	Not applicable.
<b>Flash point</b>	No data available
<b>Flammability limits</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>VOC (Volatile organic compounds)</b>	No data available
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	No Significant Hazard.
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## 10.4. Conditions to avoid

	Keep away from heat.
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## 10.5. Incompatible materials

	No data available.
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## 10.6. Hazardous decomposition products

	Carbon oxides.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Ingestion may cause nausea and vomiting.
<b>Skin corrosion/irritation</b>	May cause allergic reactions in susceptible people.
<b>Serious eye damage/irritation</b>	May cause eye irritation.
<b>Respiratory or skin sensitisation</b>	May cause sensitization by inhalation. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.

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## 11.1. Information on toxicological effects

Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112. Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	No Significant Hazard.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

## 11.1.2. Mixtures

	Caution - substance not yet fully tested.
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## 11.1.4. Toxicological information

	No data available
	Caution - substance not yet fully tested.

## SECTION 12: Ecological information

## 12.1. Toxicity

	No data available
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## 12.2. Persistence and degradability

	No data available.
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## 12.3. Bioaccumulative potential

	No data is available on this product.
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## Partition coefficient

	ISO-GRID® Cellulase No data available
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## 12.4. Mobility in soil

	No data is available on this product.
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## 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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## 12.6. Other adverse effects

	Caution - substance not yet fully tested.
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## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Dispose of in compliance with all. local and national regulations.
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## Disposal methods

	Dispose of in compliance with all. local and national regulations.
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## Disposal of packaging

	Dispose of in compliance with all. local and national regulations.
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The product is not classified as dangerous for carriage.

**14.2. UN proper shipping name**

The product is not classified as dangerous for carriage.

**14.3. Transport hazard class(es)**

The product is not classified as dangerous for carriage.

**14.4. Packing group**

The product is not classified as dangerous for carriage.

**14.5. Environmental hazards**

The product is not classified as dangerous for carriage.

**14.6. Special precautions for user**

The product is not classified as dangerous for carriage.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

The product is not classified as dangerous for carriage.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulations**

Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.

All chemicals in this product are TSCA listed or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.

## US State Regulations:

New Jersey Right-to-Know Hazardous Substance List:  
This material contains no reportable componentsPennsylvania Right-to-Know Hazardous Substance List:  
This material contains no reportable components.Rhode Island Right-to-Know Hazardous Substance List:  
This material contains no reportable components.**Inventories**

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Cellulase	Y	N	N	N	N	N	N	N	N

**SECTION 16: Other information****Other information****Text of Hazard Statements in Section 3**

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Further information**

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding

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**Further information**

the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

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