

Safety Data Sheet per OSHA HazCom 2012

per OSHA HazCom 2012 Printing date 11/24/20 Reviewed on 10/04/20
1 Identification Product identifier Product name: Ascorbate oxidase, from Cucurbita sp.
Stock number: J65782 CAS Number: 9029-44-1 EC number: 232-852-6 Relevant identified uses of the substance or mixture and uses advised against.
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com
Entali, tech@ana.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.
Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
(Hazardous Materials Identification System) HEALTH Health (acute effects) = 1 FIRE Flammability = 1 REACTIVITY Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 9029-44-1 Ascorbate oxidase Identification number(s): EC number: 232-852-6
4 First-aid measures
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor
Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.
6 Accidental release measures
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required. Reference to other sections
See Section 7 for information on safe handling (Contd. on page USA

Product name: Ascorbate oxidase,		1ewed 011 10/04/2012			
Product name. ASCOLDATE OXIDASE,		(Contd. of page 1)			
See Section 8 for information on person See Section 13 for disposal information	nal protection equipment.	(Conta: of page 1)			
7 Handling and storage					
Handling Precautions for safe handling Keep container tightly sealed. Information about protection against explosions and fires: No information known.					
Conditions for safe storage, including any incompatibilities Storage					
Requirements to be met by storerooms and receptacles: Store in freezer (-20 °C). Information about storage in one common storage facility: Protect from heat					
Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Specific end use(s) No further relevant information available.					
8 Exposure controls/personal prot	tection				
Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters					
Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data					
Exposure controls Personal protective equipment					
General protective and hygienic mea	General protective and hygienic measures				
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.					
Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment					
Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:					
Impervious gloves Check protective gloves prior to each u	se for their proper condition.				
The selection of suitable gloves not onl Penetration time of glove material (ir	se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. n minutes) Not determined				
Eye protection: Safety glasses	Eye protection: Safety glasses Body protection: Protective work clothing.				
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9 Physical and chemical properties Information on basic physical and chemical properties					
General Information					
Form: Color:	Lyophilized powder Pale blue				
Odor:	Not determined				
Odor threshold: pH-value:	Not determined. Not applicable.				
Change in condition	Not applicable.				
Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined				
Sublimation temperature / start:	Not determined				
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined				
Decomposition temperature: Auto igniting:	Not determined Not determined.				
Danger of explosion:	Not determined.				
Explosion limits: Lower:	Not determined				
Upper: Vapor pressure:	Not determined Not applicable.				
Density:	Not determined				
Relative density Vapor density	Not determined. Not applicable.				
Evaporation rate Solubility in / Miscibility with	Not applicable.				
Water: Partition coefficient (n-octanol/water	Not determined): Not determined.				
Viscosity: dynamic:					
kinematic: Other information	Not applicable. Not applicable. No further relevant information available.				
10 Stability and reactivity					
Reactivity No information known.	manded stars as additions				
Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.					
Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available.					
Incompatible materials:	וג ווויסוזומנוסוז מצמוומטוכ.				
Oxidizing agents Heat					
		(Contd. on page 3)			

Product name: Ascorbate oxidase, from Cucurbita sp.

(Contd. of page 2)

11 Toxicological information Information conclosopical effects Action toxicological information Symp information corresponses, May cause inflation Reproductive Excepts, No shores from magnetic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGH, Reproductive Excepts, No shores, May cause inflation Reproductive Excepts, No shores from magnetic properties of the material is available. Provide Transmitter: The magnetic properties of the material is available. Provide Transmitter: The magnetic properties of the material information available. Provide Transmitter: The magnetic properties of the material information available. Provide Transmitter: The magnetic properties of the material information available. Provide Transmitter: The magnetic properties of the material information available. Provide Transmitter: The material information available. Differer Information The m			(Contd. of page 2)		
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Aquefic toxicity: No further relevant information available. Persistence and degradiability of huther relevant information available. Mobility in soil No further relevant information available. Mobility in soil No further relevant information available. The second of the second of the second of the environment without proper governmental parmits. Do not allow unailable and/ot to the grea quantities to reading ground water, water course or sewage system. Results of PBT and YPM assessment PBT Not applicable The second of the secon	-				
Weite treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: 14 Transport information Item to make according to official regulations. 14 Transport information Item to make according to official regulations. 15 Monther information Item to make according to official regulations. 16 UN Number Not applicable 17 Transport information Not applicable 17 Transport neared class(es) DOT, ADN, MMOG, IATA 18 OT, ADN, MMOG, IATA Not applicable 19 OT, ADN, MMOG, IATA Not applicable 10 T, REG, IATA Not applicable 10 T, MIDG, IATA Not applicable 10 T, MIDG, IATA Not applicable 11 Transport Information Not applicable 12 Transport Information Not applicable 13 Regulatory Information No 14 Regulatory Information - 15 Regulatory Information No 16 Regulatory Information - 17 The policable - 18 Regulatory Information - 19 Regulatory Information - 19 Regulatory Information -	Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governm Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	nental permits. course or sewage system.			
Weite treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: 14 Transport information Item to make according to official regulations. 14 Transport information Item to make according to official regulations. 15 Monther information Item to make according to official regulations. 16 UN Number Not applicable 17 Transport information Not applicable 17 Transport neared class(es) DOT, ADN, MMOG, IATA 18 OT, ADN, MMOG, IATA Not applicable 19 OT, ADN, MMOG, IATA Not applicable 10 T, REG, IATA Not applicable 10 T, MIDG, IATA Not applicable 10 T, MIDG, IATA Not applicable 11 Transport Information Not applicable 12 Transport Information Not applicable 13 Regulatory Information No 14 Regulatory Information - 15 Regulatory Information No 16 Regulatory Information - 17 The policable - 18 Regulatory Information - 19 Regulatory Information - 19 Regulatory Information -	12 Discoul considerations				
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	Chemical safety assessment: A Chemical Safety Assessment has not been o	arried out.	(Contd. on page 4)		

Product name: Ascorbate oxidase, from Cucurbita sp.

(Contd. of page 3)

USA

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: N