

## Safety Data Sheet per OSHA HazCom 2012

Revie	wed on 11/06/2012
1 Identification	
Product identifier Product name: Laminin (929-933)	
Stock number: J64127	
CAS Number: 110590-64-2	
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	
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660_	
Fax: 800-322-4757 Email: tech@alfa.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)	
HEALTH II Health (acute effects) = 1   FIRE II Flammability = 1	
REACTIVITY 1 Physical Házard = 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: 110590-64-2 Laminin Pentapeptide	
4 First-aid measures	
Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek îmmediate 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: Carbon monoxide and carbon dioxide	
Nitrogen oxides (NOx) 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 See Section 8 for information on personal protection equipment.	(Contd. on page 2)
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See Section 13 for disposal information.

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 protection		
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 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.		
Wash hands before bleaks 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		
The selection of suitable gloves not only	e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes Not determined	
Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.		
9 Physical and chemical properties		
Information on basic physical and chemical properties General Information Appearance:		
Form:	Solid	
Color: Odor:	White to off-white Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower: Upper:	Not determined Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water)	Not determined : Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known.		
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 storage oviding agents.		

Thermal decomposition / conditions to be avoided: Decomposition will Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides o sp

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erial is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. e and chronic toxicity of this substance is not fully known.
mental permits. 'course or sewage system.
r disposal.
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable.
Not applicable.
de Not applicable.
No
<u> </u>
ubstance or mixture ubstances Control Act Chemical Substance Inventory. Use of this product is restricted ider the supervision of a technically qualified individual as defined by TSCA. This nercial purposes. the Canadian Non-Domestic Substances List (NDSL).

Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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## 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 CAS: Chemical Abstracts Service, (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LDS0: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Zafety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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