

Safety Data Sheet acc. to OSHA HCS

Page 1/7

Identification	
Product identifier	
Trade name: Arabino	Lyophilized
CAS Number: 5328-37-0 EC number: 226-214-6 Relevant identified us No further relevant info	nber: 1660406, 1660406EDU, 9702997 s of the substance or mixture and uses advised against nation available. stance / the mixture Laboratory chemicals
Manufacturer/Supplie Bio-Rad Laboratories,	
2000 Alfred Nobel Driv Hercules, California 94	47 (510)741-1000
Information departme Technical services, cus lsg_techserv_us@bio- Emergency telephone 1(800)424-9300 Use ACCIDENT. 510-741-1000	omer support d.com
Hazard(s) identific	
Classification of the s The substance is not c	ssified according to the Globally Harmonized System (GHS).
Information concerni	g to Directive 67/548/EEC or Directive 1999/45/EC not applicable g particular hazards for human and environment: not applicable nade according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company ion.
Label elements GHS label elements V Hazard pictograms V Signal word Void Hazard statements V Additional informatio Other hazards Results of PBT and V PBT: Not applicable.	d 1 Contact with acids may cause release of toxic gases

3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description: 5328-37-0 L-arabinose

(Contd. on page 2)

-US-



Page 2/7

Safety Data Sheet acc. to OSHA HCS

Printing date 06/17/2015

Trade name: Arabinose Lyophilized

Reviewed on 06/09/2015

(Contd. of page 1)

· Identification number(s):

· EC number: 226-214-6

· Additional information: For the wording of the listed risk phrases refer to section 15.

4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.
- · After inhalation Supply fresh air, consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- · After eye contact Rinse opened eye for several minutes under running water.
- After swallowing Induce vomiting and call for medical help.

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
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective clothing.

· Environmental precautions: No special measures required.

Methods and material for containment and cleaning up: Pick up mechanically.

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling

- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities

· Storage

- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

(Contd. on page 3)

⁻US



Safety Data Sheet acc. to OSHA HCS

Printing date 06/17/2015

Trade name: Arabinose Lyophilized

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace: Not required.

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment

· General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. · Protection of hands: Protective gloves.

· Material of gloves Synthetic gloves

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses

9 Physical and chemical properties Information on basic physical and chemical properties · General Information · Appearance: Form: Solid Color: Whitish · Odor: Odorless · Odour threshold: Not determined. · pH-value: Not applicable. · Change in condition 158 °C Melting point/Melting range: Boiling point/Boiling range: undetermined · Flash point: Not applicable Product is not flammable. · Flammability (solid, gaseous) · Ignition temperature: Decomposition temperature: Not determined. Not determined. · Auto igniting: Product does not present an explosion hazard. Danger of explosion: · Explosion limits: Not determined. Lower: **Upper:** Not determined. Not applicable. · Vapor pressure: 0.35 a/cm3 · Density at 20 °C: Not determined. Relative density (Contd. on page 4)

Page 3/7

(Contd. of page 2)

Reviewed on 06/09/2015

US



Safety Data Sheet acc. to OSHA HCS

Printing date 06/17/2015

Reviewed on 06/09/2015

Trade name: Arabinose Lyophilized

		(Contd. of page 3
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		Annin Anni
Water:	Fully miscible	
Partition coefficient (n-octanol	/water): Not determined.	
Viscosity:		
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Organic solvents:	0.0 %	
Solids content:	100.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

Reactivity

- Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

· Information on toxicological effects

Acute toxicity:

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritant effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Target organs: Not applicable.

(Contd. on page 5)

Page 4/7



Safety Data Sheet acc. to OSHA HCS

Printing date 06/17/2015

Trade name: Arabinose Lyophilized

Reviewed on 06/09/2015

(Contd. of page 4)

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

- Recommendation
- Hand over to hazardous waste disposers.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

and the second second second second	man and south states	Francisco de la composición de	and the second
1/ Irone	norin		nn
14 Trans		iuiiiai	1011

UN-Number DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group DOT, ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.



Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/09/2015

Printing date 06/17/2015

Trade name: Arabinose Lyophilized

(Contd. of page 5)

Page 6/7

UN "Model Regulation":

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)

Section 302/304 (40CFR355.30 / 40CFR355.40):

Substance not listed.

Section 313 (40CFR372.65):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

MAK (German Maximum Workplace Concentration)

Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· National regulations

· Water hazard class: Generally not hazardous for water.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environmental Health and Safety.

· Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000 · Date of preparation / last revision 06/17/2015 / -

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)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 7)



Page 7/7

Safety Data Sheet acc. to OSHA HCS

Printing date 06/17/2015

Trade name: Arabinose Lyophilized

CAS: Chemical Abstracts Service (division of the American Chemical Society) * * Data compared to the previous version altered.

(Contd. of page 6)

US

Reviewed on 06/09/2015