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Printing date 08/05/2011

Reviewed on 08/05/2011

	Reviewed on 08/05/20
1 Identification of the substance/mix	cture and of the company/undertaking
80 Mar	
· Product identifier	
 Product name: <u>Solution B, NADPH Rege</u> Catalog number: 451200 	nerating System
•	
Details of the supplier of the safety data s	heet
Manufacturer/Supplier:	
BD Biosciences, Discovery Labware	
6 Henshaw Street	
Woburn, MA 01801 Tel: 877.232.8995	
email: labware@bd.com	
Information department:	
For further information, please call Techni	cal Services at (877) 737 8005
Technical Services	000 000 00 (077)1020270770
Emergency telephone number:	
In case of a chemical emergency, spill, fire	e, exposure, or accident contact BD Biosciences Discovery Labware
800.334.5229, or ChemTrec at 800.424.930) DO.
Dehydrogenase, glucose 6-phosphate · Chemical characterization: Mixtures · Description: Mixture of the substances liste	d below with nonharardous additions
CAS NO. Description	% Void
	76 Y 014
3 Hazards identification	
Classification of the substance or mixture	
The product is not classified according to th	e Globally Harmonized System (GHS).
Classification according to Directive 67/54	8/EEC or Directive 1999/15/EC
This product contains no hazardous constitu	uents, or the concentration of all chemical constituents are below th
regulatory threshold limits described by C	Occupational Safety Health Administration Hazard Communication
Standard 29 CFR 1910.1200 and the Europe	ean Directive 91/155/EEC, and 93/112/EC.
Void	-,
· Information concerning particular hazards	
· Classification system:	for human and environment: Not applicable
The classification was well as a little of	for human and environment: Not applicable
The clussification was made according to th	
from company and literature data	e latest editions of international substances lists, and expanded upor
from company and literature data.	
from company and literature data	e latest editions of international substances lists, and expanded upo

Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations pertaining to regulations on hazardous materials.

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• 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. (Could. of page 2)

Material Safety Data Sheet acc. to ISO/11014:2009

- Additional information: The lists that were valid during the creation were used as basis.
- · Personal Protective Equipment
- · General protective and hygienic measures
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- Protection of hands:



Chemical resistant gloves (i.e. nitrile, or equivalent).

· Eye protection: Safety glasses

· Body protection: Protective work clothing (lab coat).

*

· General Information		
· Appearance:		
Form:	Liquid	
Color: • Odor:	Clear	
· Odour threshold:	Characteristic Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
· Flash point:	Not applicable	
· Auto igniting:	Product is not self igniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Vapor pressure:	Not applicable.	
· Density:	Not determined	
· Solubility in / Miscibility with		
Water:	Soluble	
· Segregation coefficient (n-octonol/wa	Iter): Not determined.	
• Other information	No further relevant information available.	

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Incompatible materials: Incompatible material: strong oxidizers.
- · Hazardous decomposition products: No dangerous decomposition products known.

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USA





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11 Toxicological information

- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritating effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

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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.

12 Ecological information

Acquatic 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.
- · Ecotoxical effects:
- Other information:
- The ecological effects have not been thoroughly investigated, but currently none have been identified.
- · Additional ecological information:
- · General notes: Generally not hazardous for water.

13 Disposal considerations

· Waste treatment methods

- Recommendation
- Smaller quantities can be disposed of with solid waste. This product is not considered a RCRA hazardous waste. Dispose of material in accordance with federal (40 CFR 261), state and local requirements.
- · Uncleaned packagings:
 - Recommendation: Disposal must be made according to state and federal regulations.
 - · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, ADR, ADN, IMDG, LATA	Void		
· UN proper shipping name · ADR, ADN	Void	a Maritinia	
· Transport hazard class(es)	and the second second	an filter and an har.	Sec. 1
· DOT, ADR, ADN, IMDG, IATA	Void	and the second	



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	(Contd. of page 4
Void	
No	
Not applicable.	
	No

15 Regulatory information

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act)

9001-40-5 Glucose-6-phosphate dehydrogenase

7732-18-5 | water

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· Product related hazard information:

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations pertaining to regulations on hazardous materials.

· National regulations

Water hazard class: Generally not hazardous for water.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of (Contd. on page 6)

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the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

- · Department issuing MSDS: Safety and Environment Department
- · Contact: Technical Service Representative

· 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) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
- International Transport of Dangerous Goods by Rail) and the second report of the IMDG: International Maritime Code for Dangerous Goods
- LATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)