

07/11/2015

Kit Components

Product code	Description	
1709176	DCode TM Reagents Kit for TTGE	
Components:		
9702681	DCode [™] 2X Gel Loading Dye	

Safety Data Sheet acc. to OSHA HCS

Printing date 07/11/2015

• Signal word Void • Hazard statements Void

PBT: Not applicable. *vPvB:* Not applicable.

56-81-5 glycerol

7732-18-5 water

· Results of PBT and vPvB assessment

· Chemical characterization: Mixtures

3 Composition/information on ingredients

· Listing of dangerous and non-hazardous components:

· Other hazards

· Additional information: Contact with acids may cause release of toxic gases

· Description: Mixture of the substances listed below with non-hazardous additions.

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

Reviewed on 07/08/2015

	Neviewed on 07/00/2010
1 Identification	
· Product identifier	
· Trade name: <u>DCode™ 2X Gel Loading Dye</u>	
 Catalog or product number: 9702681 Relevant identified uses of the substance or mixture and uses adv. No further relevant information available. Application of the substance / the mixture Laboratory chemicals 	ised against
 Details of the supplier of the safety data sheet Manufacturer/Supplier: Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 	(510)741-1000
 Information department: Technical services, customer support Isg_techserv_us@bio-rad.com Emergency telephone number: 1(800)424-9300 Use only in the event of a CHEMICAL EMERGENC ACCIDENT. 510-741-1000 	Y involving a SPILL, LEAK, FIRE, EXPLOSION or
2. Upperd(a) identification	
2 Hazard(s) identification	
Classification of the substance or mixture The product is not classified according to the Globally Harmonized System	em (GHS).
 Label elements GHS label elements Void Hazard pictograms Void 	

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50-100%

20-35%

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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: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 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.
- · Specific end use(s) No further relevant information available.

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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: 56-81-5 glycerol PEL () 15* 5** mg/m³ *total dust **respirable fraction TLV () 10 ppm · 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. · Breathing equipment: Not required. · 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: Liquid Color: Blue · Odor: Odorless · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined

· Flash point: > 100 °C · Flammability (solid, gaseous) Not applicable. 400 °C · Ignition temperature: · Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. · Danger of explosion: Product does not present an explosion hazard. · Explosion limits: 0.9 Vol % Lower: (Contd. on page 4)

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Upper:	Not determined.	
· Vapor pressure at 20 °C:	23 hPa	
· Density:	Not determined	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible	
· Partition coefficient (n-octanol/	water): Not determined.	
· Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	70.0 %	
Water:	29.8 %	
Solids content:	0.2 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · 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:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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.

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· 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.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Target organs: Not applicable.

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.

14 Transport information		
· 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	
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· 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.	
· 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)
- SAKA (Superfult Amendems and Readition2ation Act of 1986 OSA)
 Section 302/304 (40CFR355.30 / 40CFR355.40):
 None of the ingredients is listed.
 Section 313 (40CFR372.65):
 None of the ingredients is listed.
 TSCA (Toxic Substances Control Act):
 56-81-5 glycerol
 7732-18-5 water
 34725-61-6 bromophenol blue, sodium salt
 2650-17-1 Xylene cyanole FF
 Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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

None of the ingredients is listed.

- · National regulations
- · Technical instructions (air):
 - Class Share in %

NK 50-100

· Water hazard class: Generally not hazardous for water.

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· 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 07/11/2015 / -

· 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 ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

• * Data compared to the previous version altered.