BIO RAD

U6/10/2015	Kit Components	
Product code	Description	
1725310 1725311 10002097	iProof ^{rm} HF Master Mix Kit	
Components:		
10002330	2X iProof™ HF Master Mix	
10002430	Dimethylsulfoxide (DMSO)	



Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/10/2015

Page 1/7

(510)741-1000

Printing date 06/10/2015 1 Identification

- Product identifier
- Trade name: 2X iProof™ HF Master Mix
- Catalog or product number: 10002330, 10002073, 10002439, 1725985
- Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available
- Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Bio-Rad Laboratories, Life Science Group

2000 Alfred Nobel Drive

Hercules, California 94547

Information department:

Technical services, customer support

lsg_techserv_us@bio-rad.com

Emergency telephone number:

1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.

510-741-1000

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and ilterature

The classification was made according to OSHA 29CFR 1910 1200 and 1910 1030, and is expanded upon from company and/or literature information.

- Label elements
- GHS label elements Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Additional information: Contact with acids may cause release of toxic gases
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- · vPvB: Not applicable

3 Composition/information on ingredients

Chemical characterization: Substances

CAS No. Description:

7732-18-5 water

(Contd. on page 2)

RECEIVED

OCT 04 2021
Safety



Safety Data Sheet acc. to OSHA HCS

Printing date 06/10/2015

Reviewed on 06/10/2015

(Contd. of page 1)

1.0-2.5%

Page 2/7

Trade name: 2X iProof™ HF Master Mix

Identification number(s):

EC number: 231-791-2

Chemical characterization: Mixtures

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

Listing of dangerous and non-hazardous components:

7447-40-7 potassium chloride

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 firelighters

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.

(Contd. on page 3)



Safety Data Sheet

acc. to OSHA HCS

Page 3/7

(Contd of page 2)

Printing date 06/10/2015

Reviewed on 06/10/2015

Trade name: 2X iProof™ HF Master Mix

Conditions for safe storage, including any incompatibilities

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.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the

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

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Odorless	
Odour threshold:	Not determined.	
pH-value at 20 °C:	8.8	
Change in condition		
Melting point/Melting range:	0 °C	
Boiling point/Boiling range:	undetermined	
Flash point:	Not applicable	
Flammability (solid, gaseous)	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting	

(Conld. on page 4)



Page 4/7

Safety Data Sheet acc. to OSHA HCS

Printing date 06/10/2015

Reviewed on 06/10/2015

Trade name: 2X iProof™ HF Master Mix	Trade	name:	2X	iProof™	HF	Master	Mix
--------------------------------------	-------	-------	----	---------	----	--------	-----

		(Contd. of page
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C:	23 hPa	
Density at 20 °C:	1 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined	
Evaporation rate	Not determined.	
Solubility in / Miscibility with Water:	Fully miscible	
Partition coefficient (n-octanol/w	ater): Not determined	
Viscosity:		
dynamic:	Not determined,	
kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	97.8 %	
Solids content:	22%	
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 irrilant 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:

(Contd. on page 5)



Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/10/2015

Page 5/7

Printing date 06/10/2015

Trade name: 2X iProof™ HF Master Mix

(Contd. of page 4) 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.

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

- UN-Number		
DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name	Maid	
DOT, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Void	
		(Contd. c



Safety Data Sheet acc. to OSHA HCS

Printing date 06/10/2015

Trade name: 2X iProof™ HF Master Mix

Reviewed on 06/10/2015

Page 6/7

	(Contd. of page 5
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 MA and the IBC Code	
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	to the above specifications.

SHUH (SE	ealth and environmental regulations/legislation specific for the substance or mixture iperfund Amendents and Reauthorization Act of 1986 - USA)
Section	3/2/304 (40CFR355.30 / 40CFR355.40);
	e ingredients is listed.
	313 (40CFR372.65):
	e ingredients is listed.
TSCA (To	xic Substances Control Act):
7732 - 18-5	water
	potassium chloride
77-86-1	Tris(hydroxymethyl)ami_omethane
	Triton X-100
9012-90-2	Polymerase, DNA
	enic categories
EPA (Envi	ironmental Protection Agency)
Vone of the	e ingredients is listed.
TLV (Thre	shold Limit Value established by ACGIH)
Vone of the	e ingredients is listed.
MAK (Geri	man Maximum Workplace Concentration)
Vone of the	ngredients is listed.
	(National Institute for Occupational Safety and Health)
lone of the	ingredients is listed.

(Contd. on page 7)



Page 7/7

Safety Data Sheet acc. to OSHA HCS

Printing date 06/10/2015

Reviewed on 06/10/2015

Trade name: 2X iProof™ HF Master Mix

(Contd. of page 6)

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

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

Diagnostic Group, Environmental Health and Safety, 4000 Affred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

Date of preparation / last revision 06/10/2015 / -

Abbreviations and acronyms:

ADR: Accord auropéen aur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Rough Rough