

## Safety Data Sheet acc. to OSHA HCS

Printing date 04/26/2018

Reviewed on 05/06/2016

### 1 Identification

· **Product identifier**

· **Trade name:** DNA/RNA Shield - 50 ml, 250 ml & sample; DNA/RNA Shield (2X Concentrate) - 25 ml & 125 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Collection Tube, DNA/RNA Shield Lysis Tube (Microbe), DNA/RNA Shield Lysis Tube w/ Swab (Microbe), DNA/RNA Shield Lysis Tube (Tissue); DNA/RNA Shield Collection Tube w/ Swab; DNA/RNA Shield Saliva Collection Kit

· **Article number:**

R1100-50, R1100-250, R1100-8-S, R1200-25, R1200-125, R1150, R1101, R1102, R1103, R1104, R1105, R1106, R1107, R1108, R1109, R1210

· **Application of the substance / the mixture** Laboratory Reagent

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Zymo Research Corp.  
17062 Murphy Ave.  
Irvine, CA 92614  
USA  
Phone: 1-949-679-1190 or 1-888-882-9682  
sds@zymoresearch.com

· **Information department:** Product safety department

· **Emergency telephone number:**

During normal business hours (8 am to 5 pm Pacific Standard Time): +1 (949) 679 1190

### 2 Hazard(s) identification

· **Classification of the substance or mixture**



Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

· **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms** GHS07

· **Signal word** Warning

· **Hazard statements**

Harmful if swallowed.

Causes skin and eye irritation.

· **Precautionary statements**

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves.

If swallowed: Call a poison center/doctor if you feel unwell.

(Contd. on page 2)



Safety Data Sheet
acc. to OSHA HCS

Printing date 04/26/2018

Reviewed on 05/06/2016

Trade name: DNA/RNA Shield - 50 ml, 250 ml & sample; DNA/RNA Shield (2X Concentrate) - 25 ml & 125 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Collection Tube, DNA/RNA Shield Lysis Tube (Microbe), DNA/RNA Shield Lysis Tube w/ Swab (Microbe), DNA/RNA Shield Lysis Tube (Tissue); DNA/RNA Shield Collection Tube w/ Swab; DNA/RNA Shield Saliva Collection Kit

(Contd. of page 1)

If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
Rinse mouth.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: This product is a proprietary solution.

Dangerous components: Void

4 First-aid measures

Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Do not induce vomiting; immediately call for medical help.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)



## Safety Data Sheet acc. to OSHA HCS

Printing date 04/26/2018

Reviewed on 05/06/2016

**Trade name:** DNA/RNA Shield - 50 ml, 250 ml & sample; DNA/RNA Shield (2X Concentrate) - 25 ml & 125 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Collection Tube, DNA/RNA Shield Lysis Tube (Microbe), DNA/RNA Shield Lysis Tube w/ Swab (Microbe), DNA/RNA Shield Lysis Tube (Tissue); DNA/RNA Shield Collection Tube w/ Swab; DNA/RNA Shield Saliva Collection Kit

(Contd. of page 2)

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Not considered a fire hazard. Use extinguishing media appropriate surrounding fire conditions. Use fire fighting measures that suit the environment.
- **Advice for firefighters**
- **Protective equipment:** Wear protective clothing.

### 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:**  
Ensure adequate ventilation.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
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 precautions are necessary if used correctly.
- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** Laboratory reagent

### 8 Exposure controls/personal protection

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

(Contd. on page 4)



Safety Data Sheet
acc. to OSHA HCS

Printing date 04/26/2018

Reviewed on 05/06/2016

Trade name: DNA/RNA Shield - 50 ml, 250 ml & sample; DNA/RNA Shield (2X Concentrate) - 25 ml & 125 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Collection Tube, DNA/RNA Shield Lysis Tube (Microbe), DNA/RNA Shield Lysis Tube w/ Swab (Microbe), DNA/RNA Shield Lysis Tube (Tissue); DNA/RNA Shield Collection Tube w/ Swab; DNA/RNA Shield Saliva Collection Kit

(Contd. of page 3)

- Control parameters
Components with limit values that require monitoring at the workplace:
Additional information:
Exposure controls
Personal protective equipment:
General protective and hygienic measures:
Breathing equipment:
Protection of hands:
Penetration time of glove material:
Eye protection:
Body protection:

9 Physical and chemical properties

- Information on basic physical and chemical properties
General Information
Appearance:
Form: Liquid
Color: Colorless
Odor: No information available
Odor threshold: Not determined.
pH-value: 5.0-7.0
Change in condition
Melting point/Melting range: Undetermined.
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.
Danger of explosion: Product does not present an explosion hazard.

(Contd. on page 5)



Safety Data Sheet
acc. to OSHA HCS

Printing date 04/26/2018

Reviewed on 05/06/2016

Trade name: DNA/RNA Shield - 50 ml, 250 ml & sample; DNA/RNA Shield (2X Concentrate) - 25 ml & 125 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Collection Tube, DNA/RNA Shield Lysis Tube (Microbe), DNA/RNA Shield Lysis Tube w/ Swab (Microbe), DNA/RNA Shield Lysis Tube (Tissue); DNA/RNA Shield Collection Tube w/ Swab; DNA/RNA Shield Saliva Collection Kit

(Contd. of page 4)

Table with 2 columns: Property and Value. Rows include Explosion limits, Vapor pressure, Density, Solubility in Water, Partition coefficient, Viscosity, Solvent content, and Other information.

10 Stability and reactivity

- Reactivity Strong oxidizing agents and acids.
Possibility of hazardous reactions Strong oxidizing agents and acids.
Conditions to avoid Strong oxidizing agents and acids.
Incompatible materials: Strong oxidizing agents and acids.

11 Toxicological information

- Information on toxicological effects
Acute toxicity
Primary irritant effect: on the eye: Irritating to eyes.
Additional toxicological information:
Carcinogenic categories
IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

(Contd. on page 6)



Safety Data Sheet
acc. to OSHA HCS

Printing date 04/26/2018

Reviewed on 05/06/2016

Trade name: DNA/RNA Shield - 50 ml, 250 ml & sample; DNA/RNA Shield (2X Concentrate) - 25 ml & 125 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Collection Tube, DNA/RNA Shield Lysis Tube (Microbe), DNA/RNA Shield Lysis Tube w/ Swab (Microbe), DNA/RNA Shield Lysis Tube (Tissue); DNA/RNA Shield Collection Tube w/ Swab; DNA/RNA Shield Saliva Collection Kit

(Contd. of page 5)

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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.
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: Dispose of contents in accordance with local/regional/national, and international recommendations.
Uncleaned packagings:
Recommendation: Dispose of container in accordance with local/regional/national and international recommendations.

14 Transport information

- UN-Number Not dangerous goods. not regulated
DOT, ADN, IMDG, IATA
UN proper shipping name Not dangerous goods. not regulated
DOT, ADN, IMDG, IATA
Transport hazard class(es) Not dangerous goods.
DOT, ADN, IMDG, IATA
Class not regulated
Packing group Not dangerous goods.

(Contd. on page 7)



Safety Data Sheet
acc. to OSHA HCS

Printing date 04/26/2018

Reviewed on 05/06/2016

Trade name: DNA/RNA Shield - 50 ml, 250 ml & sample; DNA/RNA Shield (2X Concentrate) - 25 ml & 125 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Collection Tube, DNA/RNA Shield Lysis Tube (Microbe), DNA/RNA Shield Lysis Tube w/ Swab (Microbe), DNA/RNA Shield Lysis Tube (Tissue); DNA/RNA Shield Collection Tube w/ Swab; DNA/RNA Shield Saliva Collection Kit

(Contd. of page 6)

Table with 2 columns: Hazard/Regulation and Status. Rows include DOT, IMDG, IATA; Environmental hazards; Special precautions for user; Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code; UN Model Regulation.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
Sara

Table with 2 columns: Regulatory Section and Status. Rows include Section 355, Section 313, TSCA, Proposition 65, Chemicals known to cause cancer, Chemicals known to cause reproductive toxicity for females, Chemicals known to cause reproductive toxicity for males, Chemicals known to cause developmental toxicity, Carcinogenic categories, EPA, TLV, NIOSH-Ca.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 8)





**Safety Data Sheet**  
*acc. to OSHA HCS*

Printing date 04/26/2018

Reviewed on 05/06/2016

**Trade name:** *DNA/RNA Shield - 50 ml, 250 ml & sample; DNA/RNA Shield (2X Concentrate) - 25 ml & 125 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Collection Tube, DNA/RNA Shield Lysis Tube (Microbe), DNA/RNA Shield Lysis Tube w/ Swab (Microbe), DNA/RNA Shield Lysis Tube (Tissue); DNA/RNA Shield Collection Tube w/ Swab; DNA/RNA Shield Saliva Collection Kit*

(Contd. of page 7)

- **Hazard pictograms** GHS07
- **Signal word** Warning
- **Hazard statements**  
Harmful if swallowed.  
Causes skin and eye irritation.
- **Precautionary statements**  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves.  
If swallowed: Call a poison center/doctor if you feel unwell.  
If on skin: Wash with plenty of water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Specific treatment (see on this label).  
Rinse mouth.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **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:**  
Zymo Research Corp.  
Safety Department  
17062 Murphy Ave.  
Irvine, CA 92614  
USA  
Phone: 1-949-679-1190 or 1-888-882-9682
- **Contact:** sds@zymoresearch.com
- **Date of preparation / last revision** 04/26/2018 / -
- **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  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
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)  
VOC: Volatile Organic Compounds (USA, EU)  
PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 9)





**ZYMO RESEARCH**

*The Beauty of Science is to Make Things Simple*

Page 9/9

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 04/26/2018

Reviewed on 05/06/2016

**Trade name: DNA/RNA Shield - 50 ml, 250 ml & sample; DNA/RNA Shield (2X Concentrate) - 25 ml & 125 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Collection Tube, DNA/RNA Shield Lysis Tube (Microbe), DNA/RNA Shield Lysis Tube w/ Swab (Microbe), DNA/RNA Shield Lysis Tube (Tissue); DNA/RNA Shield Collection Tube w/ Swab; DNA/RNA Shield Saliva Collection Kit**

(Contd. of page 8)

vPvB: very Persistent and very Bioaccumulative  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

US