



Safety Data Sheet
acc. to OSHA HCS

Printing date 07/24/2025

Reviewed on 02/13/2025

1 Identification

Product identifier

Trade name: DNA/RNA Shield

50 ml, 250 ml, sample, 1 Liter; DNA/RNA Shield (2X Concentrate) - 25 ml, 125 ml, 500 ml; DNA/RNA Shield Blood Collection Tube, DNA/RNA Shield Blood Kit, DNA/RNA Shield Fecal Collection Tube, DNA/RNA Shield Fecal Collection Tube (with Beads), DNA/RNA Shield Fecal Collection Kit, 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, DNA/RNA Shield SafeCollect Tube, DNA/RNA Shield SafeCollect Swab Collection Kit, DNA/RNA Shield SafeCollect Swab Collection Kit, 1ml (10 & 50 pack), DNA/RNA Shield SafeCollect Swab Collection Kit, 2ml (10 & 50 pack) DNA/RNA Shield SafeCollect Saliva Collection Kit, DNA/RNA Shield SafeCollect Saliva Collection Kit (10 & 50 pack) DNA/RNA Shield SafeCollect Saliva Collection Kit-DX

Article number:

R1100-50, R1100-50-E, R1100-250, R1100-250-E, R1100-8-S, R1100-1L, R1100-1L-E, R1200-25, R1200-25-E, R1200-125, R1200-125-E, , R1200-500, R1150, R1101, R1101-E, R1101-1-E, R1137, R1137-E, R1137-1-E, R1180, R1180-E, R1102, R1102-E, R1102-10-E, R1103, R1103-E, R1104, R1104-E, R1105, R1105-E, R1106, R1107, R1107-E, R1108, R1109, R1109-E, R1210, R1210-E, R1210-F, R1160-1, R1160, R1160-10, R1160-50, R1160-E, R1161, R1161-10, R1161-50, R1161-E, R1211, R1211-10, R1211-50, R1211-E, R1211-F

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, U.S.A., Phone: +1(949) 679-1190 or +1(888) 882-9682,
sds@zymoresearch.com

Information department: Product Safety Dept.

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 Toxicity - Oral 4 H302 Harmful if swallowed.
Skin Irritation 2 H315 Causes skin irritation.
Eye Irritation 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

(Contd. on page 2)

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(Contd. of page 1)

- **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.

Rinse mouth.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

- **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

US

(Contd. on page 3)

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(Contd. of page 2)

4 First-aid measures

- **Description of first aid measures**
- **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. Then consult a doctor.
- **After swallowing:**
Do not induce vomiting; immediately call for medical help.
Immediately call a doctor.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **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.
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:**
Dispose contaminated material as waste according to section 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.
- **Protective Action Criteria for Chemicals**

| |
|------------------------------------|
| · PAC-1: |
| None of the ingredients is listed. |

| |
|------------------------------------|
| · PAC-2: |
| None of the ingredients is listed. |

(Contd. on page 4)

US

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(Contd. of page 3)

· PAC-3:

None of the ingredients is listed.

7 Handling and storage

- **Handling:**
- **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)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Components with limit values that require monitoring at the workplace:**
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:** Use appropriate gloves. Avoid contact with skin.
- **Material of gloves** Use appropriate gloves. Avoid contact with skin.
- **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:** Avoid contact with eyes.
- **Body protection:**
Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Remove contaminated clothing and wash before use. Avoid ingestion and inhalation.

(Contd. on page 5)

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(Contd. of page 4)

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Liquid

- **Odor:** No information available

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:** Not applicable.

- **Decomposition temperature:** Not determined.

- **Ignition temperature:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower: Not Applicable

Upper: Not Applicable

- **Vapor pressure:** Not determined.

- **Density:** Not determined.

- **Relative density** Not determined.

- **Vapor 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:**

VOC content: 0.00 %

0.0 g/l / 0.00 lb/gal

Solids content: 0.0 %

(Contd. on page 6)

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(Contd. of page 5)

· **Other information**

No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **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.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **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.

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.

(Contd. on page 7)

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· **Other adverse effects** No further relevant information available.

(Contd. of page 6)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Dispose of contents in accordance with local/regional/national, and international recommendations.
- **Uncleaned packagings:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

| | |
|--|---|
| <ul style="list-style-type: none"> · UN-Number · DOT, ADN, IMDG, IATA | Not dangerous goods. not regulated |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT, ADN, IMDG, IATA | Not dangerous goods. not regulated |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADN, IMDG, IATA · Class | Not dangerous goods. not regulated |
| <ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA | Not dangerous goods. not regulated |
| <ul style="list-style-type: none"> · Environmental hazards: | Not applicable. |
| <ul style="list-style-type: none"> · Special precautions for user | Not applicable. |
| <ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| <ul style="list-style-type: none"> · UN "Model Regulation": | not regulated |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

(Contd. on page 8)

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(Contd. of page 7)

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| · Section 313 (Specific toxic chemical listings): |
| None of the ingredients is listed. |

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|---|
| · TSCA (Toxic Substances Control Act): |
| None of the ingredients is listed. |

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|------------------------------------|
| · Hazardous Air Pollutants |
| None of the ingredients is listed. |

| |
|---|
| · Proposition 65 |
| · Chemicals known to cause cancer: |
| None of the ingredients is listed. |

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|--|
| · 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. |

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|--|
| · Carcinogenic categories |
| · EPA (Environmental Protection Agency) |
| None of the ingredients is listed. |

| |
|--------------------------------------|
| · TLV (Threshold Limit Value) |
| None of the ingredients is listed. |

| |
|---|
| · NIOSH-Ca (National Institute for Occupational Safety and Health) |
| None of the ingredients is listed. |

· **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.

Rinse mouth.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

(Contd. on page 9)

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(Contd. of page 8)

If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 If eye irritation persists: Get medical advice/attention.
 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** 07/24/2025 / 5

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 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)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Acute Toxicity - Oral 4: Acute toxicity – Category 4
 Skin Irritation 2: Skin corrosion/irritation – Category 2
 Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B

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