

Material Safety Data Sheet

Zymo Research advises each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers, and other users of the product of this information.

Section 1 – Product and Company Information

Reagent/Buffer Name:	DNA/RNA Shield™
Catalog Number:	R1100-50, R1100-250
Company:	Zymo Research Corp.
Street Address:	17062 Murphy Ave.
City, State, Zip Code, Country:	Irvine, CA, 92614, USA
Phone:	949-679-1190
Fax:	949-266-9452

Section 2 – Ingredient Information/Composition

Description: This product is a proprietary solution (characterized below) with nonhazardous additions.

Section 3 – Hazard Identification

Hazard description:	Harmful by inhalation, in contact with skin and if swallowed.
NFPA ratings (scale 0 - 4) :	Health = 2; Fire = 0; Reactivity = 0
HMIS ratings (scale 0 – 4) :	Health = 2; Fire = 0; Physical Hazard = 0

Section 4 – First Aid Measures

In case of

Inhalation:	Supply fresh air; consult doctor in case of complaints.
Skin contact:	Immediately wash with water and soap and rinse thoroughly.
Eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
Swallowing:	Immediately call a doctor.

Section 5 – Fire Fighting Measures

Extinguishing agents:	Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective equipment:	Do not inhale explosion gases or combustion gases. Wear self-contained breathing apparatus and protective garments.

Section 6 – Accidental Release Measures

General information:	Wear self-contained breathing apparatus, chemical safety goggles, rubber boots, and heavy rubber gloves.
Spills / Leaks:	Ensure adequate ventilation. Do not let product enter drains. Contain spill with and inert adsorbent. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling:	Keep receptacles tightly sealed. Keep ignition sources away – Do not smoke.
Storage:	Store tightly closed in a dry and well-ventilated place.

Section 8 – Exposure Controls / Personal Protection

Wear appropriate NIOSH (US) or CEN (EU)-approved respirator, protective gloves, safety goggles. Safety shower and eye both. Mechanical exhaust required. Keep tightly closed. Wash thoroughly after handling. Do not get in contact with eyes, skin or on clothing. Do not inhale vapor. Severe eye irritant.

Section 9 – Physical and Chemical Properties

Physical form:	Liquid
Color:	Colorless
pH-range:	5.0 - 7.0
Flashpoint:	Undetermined
Melting point:	Undetermined
Solubility In water:	Limited

Section 10 – Stability and Reactivity

Substances to be avoided:	Strong oxidizing agents.
Hazardous, combustion, or decomposition products:	Carbon oxides, nitrogen oxides, and hydrogen chloride gas. Danger of toxic pyrolysis products.

Section 11 – Toxicological Information

Inhalation:	May be harmful by inhalation. Causes respiratory tract irritation.
Eye contact:	Causes severe eye irritation.
Skin contact:	Causes skin irritation, harmful by skin absorption.
Ingestion:	Toxic if swallowed.
Additional Information:	The product should be handled with the normal caution accorded to chemical handling. Additional harmful properties cannot be ruled out.

Section 12 – Ecological Information

No information available.

Section 13 – Disposal Considerations

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Do not dispose with household garbage. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Section 14 – Transport Considerations

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

Section 15 – Regulatory Information

SARA 302 components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

OSHA hazards: Irritant, Target Organ Effect, Toxic by ingestion

California prop. 65 components: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

DSL status: All components of this product are on the Canadian DSL list.

Section 16 – Other Information

The above information is believed to be correct, but does not purport to be all-inclusive and should be used only as a guide. Zymo Research shall not be held liable for any damage or other consequences resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Zymo Research be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Zymo Research has been advised or the possibility of such damages. All materials supplied by Zymo Research Corporation are intended to be used by trained professionals and are for research use only.