• SAFETY DATA SHEET

Version 7.1
Revision Date 10/14/2025
Print Date 10/15/2025

SECTION 1. IDENTIFICATION

1.1 Product identifiers

Product name : Duolink® In Situ Red Starter Kit Mouse/Goat

Product Number : DUO92103
Brand : Sigma

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Corrosive to metals : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

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Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 2

Other hazards

None known.

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements :
H290 May be corrosive to metals.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P234 Keep only in original packaging.
P261 Avoid breathing mist or vapours.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P285 In case of inadequate ventilation wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P390 Absorb spillage to prevent material damage.
P391 Collect spillage.

Storage:

P406 Store in a corrosion resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Refer to component SDS

SECTION 4. FIRST AID MEASURES

Refer to component SDS

SECTION 5. FIREFIGHTING MEASURES

Refer to component SDS

SECTION 6. ACCIDENTAL RELEASE MEASURES

Refer to component SDS

SECTION 7. HANDLING AND STORAGE

For precautions see section 2.2.

Advice on safe handling	:	Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. No metal containers.
Further information on storage conditions	:	Tightly closed. Keep locked up or in an area accessible only to qualified or authorised persons.
Storage class	:	10, Combustible liquids
Recommended storage temperature	:	-4 °F / -20 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to component SDS

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to component SDS

SECTION 10. STABILITY AND REACTIVITY

Refer to component SDS

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SECTION 11. TOXICOLOGICAL INFORMATION

Refer to component SDS

SECTION 12. ECOLOGICAL INFORMATION

Refer to component SDS

SECTION 13. DISPOSAL CONSIDERATIONS

Refer to component SDS

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	:	UN 3316
Proper shipping name	:	Chemical kit
Class	:	9
Packing group	:	III
Labels	:	Class 9 - Miscellaneous dangerous substances and articles
Packing instruction (cargo aircraft)	:	960
Packing instruction (passenger aircraft)	:	960

IMDG-Code

UN number	:	UN 3316
Proper shipping name	:	CHEMICAL KIT
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-P
Marine pollutant	:	no

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations

49 CFR Road

UN/ID/NA number	:	UN 3316
Proper shipping name	:	Chemical kits
Class	:	9
Packing group	:	III
Labels	:	Class 9 - Miscellaneous dangerous substances and articles
ERG Code	:	171

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Marine pollutant : no

Poison Inhalation Hazard : No

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned	
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned	
Duolink® In Situ Detection Reagents Red	Not Assigned	
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned	
Duolink® In Situ Mounting Medium with DAPI	Not Assigned	

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

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.

Clean Air Act

Warning: Manufactured with Duolink® In Situ PLA® Probe Anti-Goat MINUS, Duolink® In Situ PLA® Probe Anti-Mouse PLUS, Duolink® In Situ Detection Reagents Red, Duolink® In Situ Wash Buffers, Fluorescence, Duolink® In Situ Mounting Medium with DAPI, a substance which harms public health and environment by destroying ozone in the upper atmosphere.

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40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I SubstancesOzone-Depletion Potential :

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This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).
The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

Duolink® In Situ Mounting Medium with DAPI	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned	>= 90 - <= 100 %

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Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Detection Reagents Red	Not Assigned	>= 90 - <= 100 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Duolink® In Situ Mounting Medium with DAPI	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Detection Reagents Red	Not Assigned	>= 90 - <= 100 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Duolink® In Situ Mounting Medium with DAPI	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Detection Reagents Red	Not Assigned	>= 90 - <= 100 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Duolink® In Situ Mounting Medium with DAPI	Not Assigned	>= 90 - <= 100 %

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Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Detection Reagents Red	Not Assigned	>= 90 - <= 100 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Duolink® In Situ Mounting Medium with DAPI	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Detection Reagents Red	Not Assigned	>= 90 - <= 100 %

This product contains the following priority pollutants related to the U.S. Clean Water Act:

Duolink® In Situ Mounting Medium with DAPI	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned	>= 90 - <= 100 %
Duolink® In Situ Detection Reagents Red	Not Assigned	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

Duolink® In Situ Mounting Medium with DAPI	Not Assigned
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned
Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned

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Duolink® In Situ Detection Reagents Red	Not Assigned

Pennsylvania Right To Know

Duolink® In Situ Mounting Medium with DAPI	Not Assigned
Duolink® In Situ Detection Reagents Red	Not Assigned

Maine Chemicals of High Concern

Duolink® In Situ Mounting Medium with DAPI	Not Assigned
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned
Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned
Duolink® In Situ Detection Reagents Red	Not Assigned

Vermont Chemicals of High Concern

Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned
Duolink® In Situ Detection Reagents Red	Not Assigned
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned
Duolink® In Situ Mounting Medium with DAPI	Not Assigned

Washington Chemicals of High Concern

Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned
Duolink® In Situ Detection Reagents Red	Not Assigned
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned
Duolink® In Situ Mounting Medium with DAPI	Not Assigned

The components of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned
Duolink® In Situ Detection Reagents Red	Not Assigned
Duolink® In Situ Wash Buffers, Fluorescence	Not Assigned
Duolink® In Situ Mounting Medium with DAPI	Not Assigned

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Duolink® In Situ PLA® Probe Anti-Goat MINUS	Not Assigned
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Not Assigned
Duolink® In Situ Detection Reagents Red	Not Assigned
Duolink® In Situ Wash Buffers,	Not Assigned

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Fluorescence Duolink® In Situ Mounting Medium with DAPI	Not Assigned

SECTION 16. OTHER INFORMATION

Kit Components:

Duolink® In Situ PLA® Probe Anti-Goat MINUS	Sigma	DUO92006
Duolink® In Situ PLA® Probe Anti-Mouse PLUS	Sigma	DUO92001
Duolink® In Situ Detection Reagents Red	Sigma	DUO92008
Duolink® In Situ Wash Buffers, Fluorescence	Sigma	DUO82049
Duolink® In Situ Mounting Medium with DAPI	Sigma	DUO82040

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-

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Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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US / EN

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Kit Components:

Duolink® In Situ PLA® Probe Anti-Goat MINUS					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - DUO92006					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Duolink® In Situ PLA® Probe Anti-Mouse PLUS					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - DUO92001		Warning	May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.	Avoid breathing mist or vapours. IF ON SKIN: Wash with plenty of water. Dispose of contents/ container to an approved waste disposal plant. Contaminated work clothing must not be allowed out of the workplace. If skin irritation or rash occurs: Get medical advice/ attention. Avoid release to the environment. Take off contaminated clothing and wash it before reuse. Wear	

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				protective gloves. Collect spillage.	

Duolink® In Situ Detection Reagents Red					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - DUO92008		Danger	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life with long lasting effects.	Avoid breathing mist or vapours. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Dispose of contents/ container to an approved waste disposal plant. Avoid release to the environment. If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. In case of inadequate ventilation wear respiratory protection.	

Duolink® In Situ Wash Buffers, Fluorescence					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - DUO82049					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Duolink® In Situ Mounting Medium with DAPI					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma -		Warning	May be corrosive to	Keep only in original	

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DUO82040			metals. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.	packaging. IF ON SKIN: Wash with plenty of water. Store in a corrosion resistant container with a resistant inner liner. Dispose of contents/ container to an approved waste disposal plant. Avoid breathing mist or vapours. If skin irritation or rash occurs: Get medical advice/ attention. Contaminated work clothing must not be allowed out of the workplace. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves.	

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