

# • SAFETY DATA SHEET

Version 8.22  
Revision Date 10/14/2025  
Print Date 10/15/2025

## SECTION 1. IDENTIFICATION

### 1.1 Product identifiers

Product name : Imprint® DNA Modification Kit  
Product Number : MOD50  
Brand : Sigma  
Index-No. : 016-064-00-8

### 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  
Acute toxicity (Oral) : Category 4  
Skin corrosion : Sub-category 1A

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Serious eye damage : Category 1

Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Respiratory Tract)

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 2

### Other hazards

Contact with acids liberates toxic gas.

### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : Corrosive to the respiratory tract.

Precautionary statements : **Prevention:**  
P234 Keep only in original packaging.  
P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P314 Get medical advice/ attention if you feel unwell.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P391 Collect spillage.

**Storage:**

P405 Store locked up.

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

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**SECTION 4. FIRST AID MEASURES**

Refer to component SDS

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**SECTION 5. FIREFIGHTING MEASURES**

Refer to component SDS

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Refer to component SDS

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**SECTION 7. HANDLING AND STORAGE**

For precautions see section 2.2.

Conditions for safe storage : No metal containers.

Further information on storage conditions : Tightly closed.  
Keep locked up or in an area accessible only to qualified or authorised persons.

Materials to avoid : Do not store near acids.

Storage class : 8B, Non-combustible, corrosive hazardous materials

Recommended storage temperature : 68 - 77 °F / 20 - 25 °C

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Refer to component SDS

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Refer to component SDS

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## **SECTION 10. STABILITY AND REACTIVITY**

Refer to component SDS

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Refer to component SDS

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## **SECTION 12. ECOLOGICAL INFORMATION**

Refer to component SDS

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Refer to component SDS

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## **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

#### **IATA-DGR**

UN/ID No. : UN 3316  
Proper shipping name : Chemical kit  
Class : 9  
Packing group : II  
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 : II  
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 : II  
Labels : Class 9 - Miscellaneous dangerous substances and articles  
ERG Code : 171  
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.

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## SECTION 15. REGULATORY INFORMATION

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

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## SECTION 16. OTHER INFORMATION

### Kit Components:

Balance Solution	Sigma	B5811
DNA Modification Powder	Sigma	D6943
DNA Modification Solution	Sigma	D7068
Capture Solution	Sigma	M6695
Elution Solution	Sigma	M6820
Cleaning Solution	Sigma	M6945

### 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,

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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-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

## Kit Components:

Balance Solution					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - B5811		Danger	May be corrosive to metals. Causes severe skin burns and eye damage.	Keep only in original container. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Store locked up. Dispose of contents/ container to an approved waste disposal plant. Wash skin thoroughly after handling. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Store in corrosive resistant container with a resistant inner liner. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call	

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				<p>a POISON CENTER/ doctor.  IF IN EYES:  Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.</p>	
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**DNA Modification Powder**

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - D6943		Warning	Harmful if swallowed. Harmful to aquatic life.	<p>Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. Dispose of contents/ container to an approved waste disposal plant. Do not eat, drink or smoke when using this product. Avoid release to the environment.</p>	

<b>DNA Modification Solution</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - D7068		Warning	May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.	Do not breathe mist or vapours. Get medical advice/ attention if you feel unwell. Dispose of contents/ container to an approved waste disposal plant.	

<b>Capture Solution</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - M6695					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

<b>Elution Solution</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - M6820					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

<b>Cleaning Solution</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - M6945		Danger	May be corrosive to metals. Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.	Keep only in original packaging. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Store locked up. Dispose of	

				<p>contents/  container to an  approved waste  disposal plant.  Wash skin  thoroughly after  handling. IF ON  SKIN (or hair):  Take off  immediately all  contaminated  clothing. Rinse  skin with water/  shower. Store in  a corrosion  resistant  container with a  resistant inner  liner. Avoid  release to the  environment. IF  INHALED:  Remove person  to fresh air and  keep  comfortable for  breathing.  Immediately call  a POISON  CENTER/ doctor.  Wear protective  gloves,  protective  clothing, eye  protection and  face protection.  IF IN EYES:  Rinse cautiously  with water for  several minutes.  Remove contact  lenses, if  present and  easy to do.  Continue  rinsing.  Immediately call  a POISON  CENTER/ doctor.  Wash  contaminated  clothing before</p>	
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				reuse. Absorb spillage to prevent material damage. Collect spillage.	
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