

# • SAFETY DATA SHEET

Version 9.0  
Revision Date 09/25/2025  
Print Date 09/26/2025

## SECTION 1. IDENTIFICATION

### 1.1 Product identifiers

Product name : TrueGel3D Hydrogel Kits

Product Number : TRUE4

Brand : Sigma

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

### 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

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H290 May be corrosive to metals.

Precautionary statements : **Prevention:**  
P234 Keep only in original packaging.  
**Response:**  
P390 Absorb spillage to prevent material damage.  
**Storage:**  
P406 Store in a corrosion resistant container with a resistant inner liner.

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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.

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada

**MILLIPORE  
SIGMA**

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.

Storage class : 10, Combustible liquids

Recommended storage temperature : -94 °F / -70 °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 1789  
Proper shipping name : Hydrochloric acid  
Class : 8  
Packing group : III  
Labels : Class 8 - Corrosive substances  
Packing instruction (cargo : 856  
aircraft)  
Packing instruction : 852

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(passenger aircraft)

**IMDG-Code**

UN number : UN 1789  
Proper shipping name : HYDROCHLORIC ACID  
  
Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
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 1789  
Proper shipping name : Hydrochloric acid  
  
Class : 8  
Packing group : III  
Labels : Class 8 - Corrosive substances  
ERG Code : 157  
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**

**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)
FAST-PVA, solution in phosphate buffer, 170 µl	Not Assigned	
CD cell-degradable crosslinker, lyophilized	Not Assigned	
TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5	Not Assigned	
water, 1500 µl	Not Assigned	

**SARA 311/312 Hazards** : No SARA Hazards

**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 CD cell-degradable crosslinker, lyophilized, a substance which harms public health and environment by destroying ozone in the upper atmosphere.

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

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):

CD cell-degradable crosslinker, lyophilized	Not Assigned	>= 90 - <= 100 %
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The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489):

CD cell-degradable crosslinker, lyophilized	Not Assigned	>= 90 - <= 100 %
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### Clean Water Act

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

CD cell-degradable crosslinker, lyophilized	Not Assigned	>= 90 - <= 100 %
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The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3:

CD cell-degradable crosslinker, lyophilized	Not Assigned	>= 90 - <= 100 %
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This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

CD cell-degradable crosslinker, lyophilized	Not Assigned	>= 90 - <= 100 %
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This product contains the following priority pollutants related to the U.S. Clean Water Act:

CD cell-degradable crosslinker, lyophilized	Not Assigned	>= 90 - <= 100 %
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## US State Regulations

### Massachusetts Right To Know

FAST-PVA, solution in phosphate buffer, 170 µl	Not Assigned
CD cell-degradable crosslinker, lyophilized	Not Assigned
TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5	Not Assigned
water, 1500 µl	Not Assigned

### Pennsylvania Right To Know

FAST-PVA, solution in phosphate buffer, 170 µl	Not Assigned
CD cell-degradable crosslinker, lyophilized	Not Assigned
TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5	Not Assigned

### Maine Chemicals of High Concern

FAST-PVA, solution in phosphate buffer, 170 µl	Not Assigned
CD cell-degradable crosslinker, lyophilized	Not Assigned
TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5	Not Assigned
water, 1500 µl	Not Assigned

### Vermont Chemicals of High Concern

FAST-PVA, solution in phosphate buffer, 170 µl	Not Assigned
CD cell-degradable crosslinker, lyophilized	Not Assigned
TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5	Not Assigned
water, 1500 µl	Not Assigned

### Washington Chemicals of High Concern

FAST-PVA, solution in phosphate buffer, 170 µl	Not Assigned
CD cell-degradable crosslinker, lyophilized	Not Assigned
TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5	Not Assigned
water, 1500 µl	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:

FAST-PVA, solution in phosphate buffer, 170 µl	Not Assigned
CD cell-degradable crosslinker, lyophilized	Not Assigned
TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5	Not Assigned
water, 1500 µl	Not Assigned

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

FAST-PVA, solution in phosphate buffer, 170 µl	Not Assigned
CD cell-degradable crosslinker, lyophilized	Not Assigned
TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5	Not Assigned
water, 1500 µl	Not Assigned

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## SECTION 16. OTHER INFORMATION

### Kit Components:

FAST-PVA, solution in phosphate buffer, 170 µl	Sigma	TRU-FPVA
CD cell-degradable crosslinker, lyophilized	Sigma	TRU-CD
TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5	Sigma	TRU-B55
water, 1500 µl	Sigma	TRUWA-1500UL

### Relevant changes since previous version

7. Handling and storage

### 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); EC<sub>x</sub> - Concentration associated with x% response; EHS - Extremely Hazardous Substance; EL<sub>x</sub> - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErC<sub>x</sub> - 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; IC<sub>50</sub> - 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; LC<sub>50</sub> - Lethal Concentration to 50 % of a test population; LD<sub>50</sub> - 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:

<b>FAST-PVA, solution in phosphate buffer, 170 µl</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - TRU-FPVA					Not a hazardous substance or mixture.

<b>CD cell-degradable crosslinker, lyophilized</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - TRU-CD					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

<b>TrueGel buffer, 200 µl solution, 10X concentrated, p H 5.5</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - TRU-B55		Warning	May be corrosive to metals.	Keep only in original packaging. Absorb spillage to prevent material damage. Store in a corrosion resistant container with a resistant inner liner.	

<b>water, 1500 µl</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Sigma - TRUWA-1500UL					Not a hazardous substance or mixture.

