

## Section 1 – Product and Company Identification

### Manufacturer Information

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### Product Information

Product Name: D<sup>3</sup> DFA Herpes Simplex Virus Identification and Typing Kit and Duo Pack (Catalog #: 01-090000, 01-090001)

Intended Use: Identification and typing kit intended for use in the qualitative detection of human herpes simplex virus type 1 and type 2 (HSV-1 and HSV-2) in cell cultures by immunofluorescence using fluoresceinated monoclonal antibodies (MAbs). Replacement reagents.


Components: HSV-1 DFA Reagent (01-095005), HSV-2 DFA Reagent (01-096005), HSV-1/HSV-2 Antigen Control Slides (01-00101), 40X PBS Concentrate (01-090025), and Mounting Fluid (01-002007b).

## Section 2 – Hazards Identification

### Emergency Overview

Kit Component	OSHA Hazards	Target Organs	GHS Classification
<b>40X PBS Concentrate</b> (Sodium Azide, 4%)	Toxic, Irritant	Eyes, Skin	Acute toxicity, Oral (Category 4) Acute aquatic toxicity (Category 3) Skin Irritation (Category 2) Eye Irritation (Category 2A) Chronic aquatic toxicity (Category 3)

### GHS Classification and Label Elements

Component	Pictogram	Hazard Statements	Precautionary Statements
<b>40X PBS Concentrate</b> (Sodium Azide, 4%)		H302 Harmful if swallowed. H315 Causes skin irritation. H320 Causes eye irritation. H412 Harmful to aquatic life with long lasting effects.	P264 Wash hands thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves and safety glasses. P308+P313: If exposed or concerned – get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	<b>Signal Word</b>		
	<b>Warning</b>		
<b>Supplemental Hazard Statements</b>		1. Sodium azide is used as a preservative (<0.1%) in the HSV-1 DFA Reagent, HSV-2 DFA Reagent and Mounting Fluid. 2. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Avoid disposal of this material down sanitary or industrial plumbing systems. 3. Sodium azide may be rapidly absorbed through the skin 4. Evans Blue is used in the HSV-1 DFA Reagent and HSV-2 DFA Reagent at a concentration of <0.01%. Evans Blue is a possible carcinogen and may cause cancer (IARC Group 3). 5. <u>HSV-1/HSV-2 Antigen Control Slides</u> are microscope slides onto which cultured cells infected with <i>herpes simplex virus type 1</i> and <i>herpes simplex virus type 2</i> have been grown then fixed (killed) with acetone; a drying agent is included in the foil envelope to preserve antigen integrity; there is no residual acetone present. 6. Follow Universal Precautions when working with this kit.	

### Section 3 – Composition / Information on Ingredients

Component	Chemical Name	CAS #	EINECS #	Conc. (%)	Component Volume	Chemical Classification
<b>40X PBS Concentrate</b>	Sodium Chloride	7647-14-5	231-598-3	<36	25 mL	Acute Tox. 2; Acute Tox. 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H300 +H310, H373, H410
	Sodium Azide	26628-22-8	247-852-1	4		
<b>Mounting Fluid</b>	Glycerol	56-81-5	200-289-5	60	7 mL	--

**NOTE:** All of the above reagents, buffers, solutions or fluids are considered 'Mixtures'.

### Section 4 – First Aid Measures

#### General Advice

Move out of exposure area. Consult a physician. Show this safety data sheet to the doctor in attendance, as necessary.

- If inhaled:* Move the person to fresh air and support breathing as required.
- In case of skin contact:* Wash affected area with soap and water. Seek medical advice if irritation develops.
- In case of eye contact:* Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
- If swallowed:* Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical advice if irritation develops.
- Note to Physicians:* Treat symptomatically.

### Section 5 – Fire Fighting Measures

#### General Advice

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to extinguish a fire.

- Suitable Extinguishing Media:* For small fires, use dry chemical, water spray, carbon dioxide or alcohol-resistant foam.
- General Fire Hazards:* The components within this kit will not significantly contribute to the intensity of a fire.
- Hazardous Combustion Products:* No data available
- Fire Fighting Equipment:* Firefighters should wear full protective gear when responding to fires.

### Section 6 – Accidental Release Measures

#### General Advice

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to clean up a spill or release. Large spills of the solutions, controls or reagents contained within this kit are unlikely.

- Personal Precautions:* Use personal protective equipment, including protective gloves and safety glasses when cleaning up small spills of the solutions, controls or reagents within this kit. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Keep all unnecessary personnel away from the spill area.
- Materials and Methods for Clean-Up:* Soak up with inert absorbent material (e.g., paper towel, etc.). Thoroughly wash the area with soap and water after a spill or release clean-up.

## Section 6 – Accidental Release Measures (cont'd)

- Recovery and Neutralization:* Collect spilled material and clean-up supplies and place in sealed container for disposal. Refer to Section 13 for disposal guidance.
- Environmental Precautions:* Contain spill to prevent migration to drains, sewers or open water sources. Discharge into the environment must be avoided.

## Section 7 – Handling and Storage

**Specific Use:** For *In Vitro Diagnostic* use. Not for use by the general public.

### Precautions for Safe Handling

As with all chemical and biological substances, avoid getting the components within this kit ON YOU or IN YOU. Wash exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. This kit should be handled only by qualified clinical or laboratory employees trained on the use of this kit and who are familiar with the potential hazards. Universal Precautions should be followed when handling and working with this kit. Keep out of reach of the general public.

**Conditions for Safe Storage:** To maintain efficacy, store according to the kit specific Package Insert instructions.

**Incompatibilities** To maintain efficacy, store according to the kit specific Package Insert instructions.

## Section 8 – Exposure Controls and Personal Protection

**Exposure Limits:** No data available for the specific components within this kit.

### Exposure Controls:

**Engineering Measures** Use with adequate ventilation.

#### Personal Protective Equipment

*Respiratory Protection:* None needed under normal conditions of use.

*Hand Protection:* Handle with appropriately rated chemical resistant gloves. Gloves should be inspected prior to use. Use proper glove technique to remove gloves to avoid contact with skin. Wash hands after handling the components within this kit.

*Eye Protection:* Wear safety glasses with side shields or goggles to prevent eye contact.

*Skin and Body Protection:* Use body protection appropriate for the task. A laboratory coat is recommended.

*Hygiene Measures:* Wash hands before and after use and at the end of the workday.

**Environmental Exposure Controls** No special environmental controls are required.

## Section 9 – Physical and Chemical Properties

Characteristic	40X PBS Concentrate
Boiling Point (°C)	No data available
Melting Point (°C)	No data available
Specific Gravity (H <sub>2</sub> O = 1)	No data available
Vapor Pressure (mm Hg)	No data available
Vapor Density (Air = 1)	No data available
Evaporation Rate (Ether = 1)	No data available
pH	7.0-7.6
Solubility in Water	Soluble
Appearance and Odor	Clear liquid, mild odor

### Section 10 – Stability and Reactivity

Characteristic	40X PBS Concentrate
Component Stability	Stable
Hazard Reaction Potential	No data available
Conditions to Avoid	No data available
Materials to Avoid	Metals, acids, dimethyl sulfate, halogenated hydrocarbons
Hazardous Decomposition Products	No data available

### Section 11 – Toxicological Information

**Acute Toxicity**
**Component Analysis – LD50 / LC50 / Irritation** (No data available for specific kit components)

Chemical Name	CAS #	RTECS #	Information
Sodium Azide	26628-22-8	VY8050000	Oral LD <sub>50</sub> Rabbit                  10 mg/kg
			Inhalation LC <sub>50</sub> Rat                        37 mg/m <sup>3</sup>
			Dermal LD <sub>50</sub> Rabbit                  20 mg/kg

**Potential Health Effects:**    40X PBS Concentrate:    Toxic, Irritant

<i>Skin Corrosion/Irritation:</i>	No data available	<i>Inhalation:</i>	May cause respiratory tract irritation.
<i>Serious Eye Damage / Irritation:</i>	No data available	<i>Skin:</i>	May cause skin irritation upon contact.
<i>Respiratory or Skin Sensitization:</i>	No data available	<i>Eyes:</i>	May cause serious eye irritation.
<i>Generative Cell Mutagenicity:</i>	No data available	<i>Ingestion:</i>	May be harmful if swallowed.

**Carcinogenicity**
HSV-1 DFA Reagent:                  Evans Blue                  IARC Group 3: Not classifiable as to its carcinogenicity to humans.

HSV-2 DFA Reagent:                  Evans Blue                  IARC Group 3: Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity**                  No data available

**Teratogenicity**                              No data available

**Specified Target Organ General Toxicity (GHS)**
*Single Exposure (GHS):*                  No data available

*Repeated Exposure (GHS):*              No data available

**Aspiration Respiratory Organs Hazard**                  None anticipated under product use conditions.

**Synergistic Effects**                        No data available

**Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated for the components within this kit.

40X PBS Concentrate:                  Liver – irregularities – Based on Human Evidence (Sodium Azide)

## Section 12 – Ecological Information

<b>Ecotoxicity</b>	No data available		
<b>Mobility in Soil</b>	No data available		
<b>Persistence / Degradability</b>	No data available	<b>PBT and vPvB Assessment</b>	No data available
<b>Bioaccumulation</b>	No data available		

### Other Adverse Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment.

## Section 13 – Disposal Considerations

### Waste Disposal Instructions

Utilize appropriate personal protective equipment and spill control when handling wastes generated from using this kit. Do not discharge any of the solutions, reagents, controls, cultures or media into drains, water courses or onto the ground.

### Disposal of Product and Contaminated Packaging

Dispose of waste materials, unused components and contaminated packaging in compliance with country, federal, state and local regulations. If unsure of the applicable regulatory requirements, contact a licensed professional waste disposal service to dispose of this material.

## Section 14 – Transportation Information

<b>U.S. Department of Transportation (DOT)</b>	Not regulated for transport
<b>International Air Transportation (IATA)</b>	Not regulated for transport
<b>International Maritime Dangerous Goods (IMDG)</b>	Not regulated for transport

#### Classification Notes:

- LD<sub>50</sub> Oral (Rat) is >3000 mg/kg   Regulatory classification as hazardous material is ≤300.
- LC<sub>50</sub> Inhalation (Rat) is > 5 mg/L   Regulatory classification as hazardous material is ≤4
- Dermal Toxicity   According to 49 CFR 173.137, OECD 404 and UN/SCEGHS/25/INF.19 this article is not corrosive to rabbit skin.

For LD<sub>50</sub> and LC<sub>50</sub> classification refer to 49 CFR 173.132 (2010).

## Section 15 – Regulatory Information

### Regulatory Information

#### U.S. Federal Regulations

<b>OSHA Hazards</b>	<u>40X PBS Concentrate</u> :	Toxic, Irritant
<b>SARA 302</b>	The following chemicals are subject to reporting levels established by SARA Title III, Section 302:	
	Sodium Azide	CAS #: 26628-22-8                         Revision Date: 2007-07-01
<b>SARA 313</b>	The following chemicals are subject to reporting levels established by SARA Title III, Section 313:	
	Sodium Azide	CAS #: 26628-22-8                         Revision Date: 2007-07-01
<b>SARA 311/312</b>	Sodium Azide	CAS #: 26628-22-8                         Acute Health Hazard, Chronic Health Hazard

## Section 15 – Regulatory Information (cont'd)

**State Regulations**

The following chemical(s) appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Sodium Azide	26628-22-8	Yes	Yes	Yes	Yes	Yes	Yes

**California Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**Canadian – WHMIS IDL**

Chemical Name	CAS #	Minimum Concentration
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**Additional Regulatory Information**
**Safety, Health and Environmental regulations/legislation specific for the mixture:**

Not completed for this components contained within this kit.

**Chemical Safety Assessment:**

Not completed for this components contained within this kit.

**HMIS Kit Classification:**

Health Hazard: 2  
 Chronic Health Hazard: \*  
 Flammability: 0  
 Physical Hazard: 0

**NFPA Kit Classification:**

Health Hazard (blue): 2  
 Fire Hazard (red): 0  
 Reactivity Hazard (yellow): 0  
 Special Hazards (white): 0

*\*Use additional care when handling this kit.*

## Section 16 – Other Information

**Text of H-code(s) mentioned in Section 3:**

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H300 + H310	Fatal if swallowed or in contact with skin
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
STOT RE	Specific target organ toxicity - repeated exposure

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**REVISIONS:** Update Section 14, Transportation information and general formatting.

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