

Version 1.12 Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

SECTION 1. IDENTIFICATION

Product name	:	OptiView DAB Detection Kit		
Product code	:	06396500001		
Manufacturer or supplier's d	eta	ails		
Company name of supplier	:	Roche Diagnostics -		
Address	:	9115 Hague Road Indianapolis, IN 46250 USA		
Telephone Emergency telephone	:	1-800-428-5074		
In case of emergencies:	:	CHEMTREC	1-800-424-9300 (U.S. or Ca- nada) 1-703-527-3887 (Internatio- nal)	
Recommended use of the chemical and restrictions on use				

Restrictions on use : For professional users only.

•	i oi piolessional use

SECTION 2. HAZARDS IDENTIFICATION

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

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section GHS Label elements contains the resulting labelling for the kit

GHS label elements

Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H315 Causes skin irritation. H318 Causes serious eye damage. H350 May cause cancer.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/



Version 1.12 Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

HRP Multimer

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)	
Caseins	9000-71-9	>= 1 - < 5	
Actual concentration is withheld as a trade appret			

Actual concentration is withheld as a trade secret

HQ Universal Linker

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
Caseins	9000-71-9	>= 1 - < 5

Actual concentration is withheld as a trade secret

DAB

GHS Classification

Carcinogenicity : Category 1B

Components



Ve	rsion
1.1	12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Chemical name	CAS-No.	Concentration (% w/w)
Poly(oxy-1,2-ethanediyl), .alpha	25322-68-3	>= 5 - < 10
hydroomegahydroxy-		
[1,1'-Biphenyl]-3,3',4,4'-tetramine,	7411-49-6	>= 0.1 - < 1
hydrochloride (1:4)		

Actual concentration is withheld as a trade secret

H202 / DAB H2O2

GHS Classification

Not a hazardous substance or mixture.

Components

No hazardous ingredients

Peroxidase Inhibitor

GHS Classification

Skin irritation	:	Category 2
Serious eye damage	:	Category 1

Components

Chemical name	CAS-No.	Concentration (% w/w)
Hydrogen peroxide (H2O2)	7722-84-1	>= 1 - < 5

Actual concentration is withheld as a trade secret

Copper

GHS Classification

Not a hazardous substance or mixture.

Components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in atten- dance. Do not leave the victim unattended.
If inhaled	:	Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If skin irritation persists, call a physician.



OptiView DAB Detection Kit

Version 1.12	Revision D 10-10-202		Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
		If on skin, rinse w If on clothes, rem	
In case of eye contact	:	sue damage and In the case of con of water and see Continue rinsing Remove contact Protect unharmer Keep eye wide of	ntact with eyes, rinse immediately with plenty k medical advice. eyes during transport to hospital. lenses.
If swallowed	:	Keep respiratory Do NOT induce v Do not give milk Never give anyth If symptoms pers	vomiting. or alcoholic beverages. ning by mouth to an unconscious person. sist, call a physician. ediately to hospital.
Most important sympto and effects, both acute delayed		No information av	vailable.
Notes to physician	:		edure should be established in consultation esponsible for industrial medicine.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Refer to protective measures listed in sections 7 and 8.
gency procedures	



Version 1.12	Revision I 10-10-202		Date of last issue: 02-07-2021 Date of first issue: 11-30-2015	
Environmental precau	tions :	Prevent further le	from entering drains. eakage or spillage if safe to do so. ntaminates rivers and lakes or drains inform rities.	
Methods and materials containment and clear		acid binder, univ	rt absorbent material (e.g. sand, silica gel, ersal binder, sawdust). , closed containers for disposal.	

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. To prevent leaks or spillages from spreading, provide a suitab- le liquid retention system.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated pla- ce. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Further information on stor- age conditions	:	See label, package insert or internal guidelines
Further information on stor- age stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

HRP Multimer

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Dipotassium hydrogen phospha-	Fresh water	0.05 mg/l



Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

te 3 hydrate

HQ Universal Linker

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Dipotassium hydrogen phospha-	Fresh water	0.05 mg/l
te 3 hydrate		

DAB

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Poly(oxy-1,2- ethanediyl), .alphahydro- .omegahydroxy-	25322-68-3	TWA (aero- sol)	10 mg/m3	US WEEL

H202 / DAB H2O2

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Dipotassium hydrogen phospha-	Fresh water	0.05 mg/l
te 3 hydrate		

Peroxidase Inhibitor

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrogen peroxide (H2O2)	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m3	NIOSH REL
		TWA	1 ppm 1.4 mg/m3	OSHA Z-1
		TWA	1 ppm 1.4 mg/m3	OSHA P0

Copper

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : No data available

Personal protective equipment

Respiratory protection	:	In the case of vapor formation use a respirator with an appro-
		ved filter.

Hand protection



OptiView DAB Detection Kit

Version 1.12	Revision Date: 10-10-2021	Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
Material Break through time Glove thickness	: Nitrile rubber	tact through splashing:
Material Break through time Glove thickness	In case of full butyl-rubber > 480 min > 0.4 mm	contact:
Remarks Eye protection	Replace torn Eye wash bot Tightly fitting	iate protective gloves to prevent skin contact. or punctured gloves promptly. tle with pure water safety goggles ield and protective suit for abnormal processing
Skin and body protect	Choose body	othing protection according to the amount and con- he dangerous substance at the work place.
Hygiene measures	When using d	o not eat or drink. o not smoke. pefore breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

HRP Multimer

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	7.3
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable.
Flammability (liquids)	:	Does not sustain combustion.



Versi 1.12	ion	Revision D 10-10-202		Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
	Self-ignition	:	No data availab	le
	Upper explosion limit / flammability limit	Upper :	No data availab	le
	Lower explosion limit / flammability limit	Lower :	No data availab	le
	Vapor pressure	:	No data availab	le
	Relative vapor density	:	No data availab	le
	Relative density	:	No data availab	le
	Density	:	1.019 g/cm3	
	Solubility(ies) Water solubility	:	completely misc	ible
	Solubility in other so	olvents :	No data availab	le
	Partition coefficient: n- octanol/water	:	No data availab	e
	Autoignition temperatu	re :	No data availab	le
	Decomposition temper	ature :	No data availab	le
	Viscosity Viscosity, dynamic	:	No data availab	le
	Viscosity, kinematic	; :	No data availab	le
	Explosive properties	:	Not explosive	
	Oxidizing properties	:	The substance of	or mixture is not classified as oxidizing

HQ Universal Linker

Appearance	: liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: No data available
рН	: 7.3



OptiView DAB Detection Kit

Version 1.12	Revision Da 10-10-2021		Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
Melting point/range	:	No data available	e
Boiling point/boiling	range :	No data availabl	e
Flash point	:	does not flash	
Evaporation rate	:	No data available	e
Flammability (solid, g	gas) :	The product is n	ot flammable.
Flammability (liquids) :	Does not sustair	a combustion.
Self-ignition	:	No data available	e
Upper explosion limi flammability limit	t / Upper :	No data availabl	e
Lower explosion limi flammability limit	t/Lower :	No data availabl	e
Vapor pressure	:	No data available	e
Relative vapor densi	ty :	No data available	e
Relative density	:	No data available	e
Density	:	1.019 g/cm3	
Solubility(ies) Water solubility	:	completely misci	ble
Solubility in other	solvents :	No data available	e
Partition coefficient: octanol/water	n- :	No data available	e
Autoignition tempera	ture :	No data available	e
Decomposition temp	erature :	No data available	e
Viscosity Viscosity, dynami	ic :	No data availabl	e
Viscosity, kinema	tic :	No data available	e
Explosive properties	:	Not explosive	
Oxidizing properties	:	The substance c	or mixture is not classified as oxidizing

DAB

Appearance

: liquid



Version 1.12 Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	2.4
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable.
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.007 g/cm3
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available



OptiView DAB Detection Kit

	Revision Date: 0-10-2021	Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
Viscosity, kinematic	: No o	data available
Explosive properties	: Not	explosive
Oxidizing properties	: The	substance or mixture is not classified as oxidizing
H202 / DAB H2O2		
Appearance	: liqui	d
Color	: No (data available
Odor	: No o	data available
Odor Threshold	: No d	data available
рН	: 7.3	
Melting point/range	: No (data available
Boiling point/boiling rang	e : No d	data available
Flash point	: doe	s not flash
Evaporation rate	: No (data available
Flammability (solid, gas)	: The	product is not flammable.
Flammability (liquids)	: Doe	s not sustain combustion.
Self-ignition	: No (data available
Upper explosion limit / U flammability limit	pper : No o	data available
Lower explosion limit / Logistic flammability limit	ower : No o	data available
Vapor pressure	: No o	data available
Relative vapor density	: No o	data available
Relative density	: No o	data available
Density	: 1.01	3 g/cm3
Solubility(ies) Water solubility	: com	pletely miscible



OptiView DAB Detection Kit

Version 1.12	Revisio 10-10-2			Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
Sol	lubility in other solvents	:	No data availabl	le
	on coefficient: n- bl/water	:	No data availabl	le
Autoig	nition temperature	:	No data availabl	e
Decon	nposition temperature	:	No data availabl	e
Viscos Vis	sity cosity, dynamic	:	No data availabl	le
Vis	cosity, kinematic	:	No data availabl	le
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance of	or mixture is not classified as oxidizing.

Peroxidase Inhibitor

Appearance	:	liquid
Color	:	colorless
Odor	:	slight
Odor Threshold	:	No data available
рН	:	4.18
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable.
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available



OptiView DAB Detection Kit

Version 1.12 Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.1 g/cm3
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive

Copper

Appearance	:	liquid
Color	:	blue
Odor	:	slight, vinegar-like
Odor Threshold	:	No data available
рН	:	5.0
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable.



OptiView DAB Detection Kit

Version	
1.12	

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.004 g/cm3
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Reacts with the following substances: Acids Bases Oxidizing agents Metals Reducing agents



Version 1.12		Revision Date: 10-10-2021		Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
			Do not allow to o Explosive when No decompositio	
Conditions t	o avoid	:	No data available	e
Incompatible	e materials	:	Oxidizing agents Acids and bases Reducing agents Metals	
Hazardous o products	decompositi	on :	•	horus

SECTION 11. TOXICOLOGICAL INFORMATION

HRP Multimer

Acute toxicity

Not classified based on available information.

Components:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Expert judgment
Acute inhalation toxicity	:	Acute toxicity estimate: > 30 mg/l Test atmosphere: dust/mist Method: Expert judgment
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Expert judgment

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.



Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

:

Components:

Caseins:

Assessment

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

Not classified based on available information.

Components:

Caseins:

Assessment

: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Not classified based on available information.

Components:

Caseins:

No data available

HQ Universal Linker

Acute toxicity

Not classified based on available information.

Components:

Caseins:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Expert judgment
Acute inhalation toxicity	:	Acute toxicity estimate: > 30 mg/l Test atmosphere: dust/mist Method: Expert judgment



OptiView DAB Detection Kit

Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg
		Method: Expert judgment

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

:

2

Components:

Caseins:

Assessment

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

Not classified based on available information.

Components:

Caseins:

Assessment

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Not classified based on available information.



Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Components:

Caseins:

No data available

DAB

Acute toxicity

Not classified based on available information.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Acute oral toxicity	:	LD50 Oral (Rat): > 50,000 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: > 30 mg/l Test atmosphere: dust/mist Method: Expert judgment
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 20,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:Remarks: This information is not available.

[1,1'-Biphenyl]-3,3',4,4'-tetramine, hydrochloride (1:4):

Remarks : This information is not available.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-: Remarks : This information is not available.

[1,1'-Biphenyl]-3,3',4,4'-tetramine, hydrochloride (1:4): Remarks : This information is not available.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.



OptiView DAB Detection Kit

Version 1.12 Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Germ cell mutagenicity

Not classified based on available information.

Components:

[1,1'-Biphenyl]-3,3',4,4'-tetramine, hydrochloride (1:4):

Germ cell mutagenicity - : In vitro tests showed mutagenic effects Assessment

Carcinogenicity

May cause cancer.

Components:

[1,1'-Biphenyl]-3,3',4,4'-tetramine, hydrochloride (1:4):

Carcinogenicity - Assess-	:	Presumed to have carcinogenic potential for humans
ment		

- IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

[1,1'-Biphenyl]-3,3',4,4'-tetramine, hydrochloride (1:4):

Assessment

: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

Not classified based on available information.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

[1,1'-Biphenyl]-3,3',4,4'-tetramine, hydrochloride (1:4):

Assessment : The substance or mixture is not classified as specific target



OptiView DAB Detection Kit

Version 1.12 Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

organ toxicant, repeated exposure.

Aspiration toxicity

Not classified based on available information.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-: No data available

[1,1'-Biphenyl]-3,3',4,4'-tetramine, hydrochloride (1:4): No data available

H202 / DAB H2O2

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.



OptiView DAB Detection Kit

Version 1.12 Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Aspiration toxicity

Not classified based on available information.

Peroxidase Inhibitor

Acute toxicity

Not classified based on available information.

Components:

Hydrogen peroxide (H2O2):

nyarogen peroxiae (nzoz).					
Acute oral toxicity	:	LD50 Oral (Mouse): 2,000 mg/kg			
		LD50 Oral (Rabbit): 820 mg/kg			
		LD50 Oral (Rat): 805 mg/kg			
Acute inhalation toxicity	:	Acute toxicity estimate: 11 mg/l Test atmosphere: vapor Method: Expert judgment			
Acute dermal toxicity	:	LD50 Dermal (Rat): 4,060 mg/kg			
Skin corrosion/irritation Causes skin irritation.					
Serious eye damage/eye irri Causes serious eye damage.		ion			
Components:					
Hydrogen peroxide (H2O2):					
Result	:	Risk of serious damage to eyes.			
Respiratory or skin sensitiz	atic	on			
Skin sensitization Not classified based on availa	able	information.			
Respiratory sensitization Not classified based on availa	able	information.			
Germ cell mutagenicity Not classified based on available information.					
Carcinogenicity Not classified based on available information.					
Components:					
Hydrogen peroxide (H2O2):					
Remarks	:	No ingredient of this product preser			

: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is



Op	tiView DA	B Detection Kit					
Ver: 1.12		Revision Date: 10-10-2021	Date of last issue: 02-07-2021 Date of first issue: 11-30-2015				
		identified as probable, possi	identified as probable, possible or confirmed human carcinogen by IARC.				
	OSHA	No component of this produce on OSHA's list of regulated of	ct present at levels greater than or equal to 0.1% is carcinogens.				
	NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.				
	Reproductive	e toxicity based on available informatior					
			l.				
	STOT-single	based on available information					
	STOT-repeate						
	-	based on available information).				
	Aspiration to						
	-	based on available information	ι.				
Co	opper						
	Acute toxicit	y					
	Not classified based on available information.						
	Skin corrosion/irritation						
	Not classified based on available information.						
	•	damage/eye irritation based on available informatior	l.				
		or skin sensitization					
	Skin sensitiz	ation					
		based on available informatior).				
	Respiratory s	sensitization					
	Not classified based on available information.						
	Germ cell mutagenicity						
	Not classified based on available information.						
	Carcinogenic	city					
	Not classified IARC		n. present at levels greater than or equal to 0.1% is ble or confirmed human carcinogen by IARC.				
	OSHA	No component of this produce on OSHA's list of regulated of	ct present at levels greater than or equal to 0.1% is carcinogens.				
	NTP	No ingredient of this product identified as a known or anti	present at levels greater than or equal to 0.1% is cipated carcinogen by NTP.				
	Reproductive	e toxicity					

Reproductive toxicity

Not classified based on available information.



OptiView DAB Detection Kit

Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

HRP Multimer

Ecotoxicity

Components:

Caseins:

Toxicity to fish	:	LC50 (Fish): > 100 mg/l
		Exposure time: 96 h

Ecotoxicology Assessment

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Caseins:

Partition coefficient: n-	:	Remarks: No data available
octanol/water		

Other adverse effects

HQ Universal Linker

Components:

Caseins:

Toxicity to fish

: LC50 (Fish): > 100 mg/l Exposure time: 96 h



OptiView DAB Detection Kit

Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

	Ecotoxicology Assessment		
	Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
	Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
	Toxicity Data on Soil	:	Not expected to adsorb on soil.
	Other organisms relevant to the environment	:	No data available
	Persistence and degradabili No data available	ty	
	Bioaccumulative potential		
	Components:		
	Caseins:		
	Partition coefficient: n- octanol/water	:	Remarks: No data available
	Other adverse effects		
DA	В		
	Ecotoxicity		
	Components:		
	Poly(oxy-1,2-ethanediyl), .al	pha	ahydroomegahydroxy-:
	Toxicity to fish	:	LC50: > 100 mg/l Exposure time: 96 h
	Ecotoxicology Assessment		
	Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
	Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
	Toxicity Data on Soil	:	Not expected to adsorb on soil.
	Other organisms relevant to the environment	:	No data available
	[1,1'-Biphenyl]-3,3',4,4'-tetra	mir	ne, hydrochloride (1:4):
	Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 32 mg/l Exposure time: 24 h
	Ecotoxicology Assessment		
	Toxicity Data on Soil	:	Not expected to adsorb on soil.

Other organisms relevant to : No data available



OptiView DAB Detection Kit

Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

the environment

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Partition coefficient: n- : Remarks: No data available octanol/water

[1,1'-Biphenyl]-3,3',4,4'-tetramine, hydrochloride (1:4):

Partition coefficient: n- : Remarks: No data available octanol/water

Other adverse effects

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-: Adsorbed organic bound : Remarks: Not applicable halogens (AOX)

H202 / DAB H2O2

Ecotoxicity		
No data available		
Persistence and degradability No data available	/	
Bioaccumulative potential		
No data available		
Other adverse effects		
roxidase Inhibitor		
Ecotoxicity		
Components:		
Hydrogen peroxide (H2O2):		
Toxicity to fish :	:	LC50 (Leuciscus idus (Golden orfe)): 30 mg/l Exposure time: 48 h
		LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l Exposure time: 96 h
		LC50 (Carassius auratus (goldfish)): 30 mg/l
Toxicity to daphnia and other :		EC50 (Daphnia magna (Water flea)): 7.7 mg/l
	No data available Persistence and degradability No data available Bioaccumulative potential No data available Other adverse effects roxidase Inhibitor Ecotoxicity Components: Hydrogen peroxide (H2O2): Toxicity to fish	No data available Persistence and degradability No data available Bioaccumulative potential No data available Other adverse effects roxidase Inhibitor Ecotoxicity Components: Hydrogen peroxide (H2O2): Toxicity to fish :



OptiView DAB Detection Kit

Vers	ion	Revision 10-10-202		Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
	aquatic invertebrates		Exposure time: 2	24 h
	Toxicity to algae/aqua plants	itic :	LC50 (Scenedes Exposure time: 7	smus quadricauda (Green algae)): 7.3 mg/l 72 h
	Toxicity to microorgar	nisms :	Remarks: No da	ta available
	Ecotoxicology Asse Acute aquatic toxicity		This product has	s no known ecotoxicological effects.
	Chronic aquatic toxici	ty :	This product has	s no known ecotoxicological effects.
	Toxicity Data on Soil	:	Not expected to	adsorb on soil.
	Other organisms relevent the environment	vant to :	No data availabl	e
	Persistence and deg	ıradability		
	Bioaccumulative por	tential		
	Components:			
	Hydrogen peroxide (Partition coefficient: n octanol/water	. ,	Remarks: No da	ta available
	Other adverse effect	S		
	Components:			
	Hydrogen peroxide (Additional ecological i mation	. ,	No data availabl	e
Co	pper			
	Ecotoxicity No data available			
	Persistence and deg	radability		
	Bioaccumulative po No data available	tential		
	Other adverse effect	S		



Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

HRP Multimer

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium hydroxide (Na(OH))	1310-73-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

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

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards



Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015 Roche

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

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

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

Sodium hydroxide	1310-73-2	>= 0 - < 0.1 %
(Na(OH))		

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

Sodium hydroxide	1310-73-2	>= 0 - < 0.1 %
(Na(OH))		

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania	Right To Know	
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Water	7732-18-5
Sodium hydroxide (Na(OH))	1310-73-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

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

AIIC : Not in compliance with the inventory

DSL

: This product contains the following components that are not on the Canadian DSL nor NDSL.

Glycols

Modified alkyl carboxylate

Globulins, blood plasma



Version 1.12	Revision Date: 10-10-2021	Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
NZIoC	: On the inventory,	or in compliance with the inventory
ENCS	: Not in compliance	e with the inventory
ISHL	: Not in compliance	e with the inventory
KECI	: Not in compliance	e with the inventory
PICCS	: Not in compliance	e with the inventory
IECSC	: Not in compliance	e with the inventory
TCSI	: Not in compliance	e with the inventory
TSCA	: Product contains TSCA inventory.	substance(s) not active and not listed on

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

HQ Universal Linker

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium hydroxide (Na(OH))	1310-73-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium azide (Na(N3))	26628-22-8	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
----------------------	---	-----------------

SARA 313	:	This material of

: 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

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).



Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

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

Phosphoric acid, sodium	7558-79-4	>= 0 - < 0.1 %
salt (1:2) Sodium hydroxide	1310-73-2	>= 0 - < 0.1 %
(Na(OH))		

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

Phosphoric acid, sodium	7558-79-4	>= 0 - < 0.1 %
salt (1:2)		
Sodium hydroxide	1310-73-2	>= 0 - < 0.1 %
(Na(OH))		

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusett	s Right To Know		
Sod	ium azide (Na(N3)))	26628-22-8
Pennsylvania	Right To Know		
Pho	Water 7732-18-5 Phosphoric acid, sodium salt (1:2) 7558-79-4 Sodium hydroxide (Na(OH)) 1310-73-2		
Maine Chemic	als of High Conc	ern	
Proc	duct does not conta	ain any listed chemicals	
	micals of High Co duct does not conta	ncern ain any listed chemicals	
Washington C	hemicals of High	Concern	
Proc	duct does not conta	ain any listed chemicals	
The ingredien	ts of this product	are reported in the following invento	ries:
AIIC	:	Not in compliance with the inventory	
DSL	:	This product contains the following cor on the Canadian DSL nor NDSL.	mponents that are not
		IMS, HQ-dPEG8-NHS	
		MAB / PAB	
		Glycols	
		Modified alkyl carboxylate	
		Globulins, blood plasma	
NZIoC	:	On the inventory, or in compliance with	n the inventory
ENCS	:	Not in compliance with the inventory	



Version 1.12	Revision Date: 10-10-2021	Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
ISHL	: Not in comp	pliance with the inventory
KECI	: Not in comp	pliance with the inventory
PICCS	: Not in comp	pliance with the inventory
IECSC	: Not in comp	pliance with the inventory
TCSI	: Not in comp	pliance with the inventory
TSCA	: Product cor TSCA inver	ntains substance(s) not active and not listed on the not listed on the not listed on the not listed on the not not listed on the not not listed on the not not not not listed on the not

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

DAB

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

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Carcinogenicity
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

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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):

Poly(oxy-1,2ethanediyl), .alpha.hydro-.omega.-hydroxy25322-68-3

>= 5 - < 10 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.



Version 1.12 Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.			
Pennsylvania Right To Kn	ow		
Water	7732-18-5		
	nediyl), .alphahydroomegahydroxy-	25322-68-3	
Maine Chemicals of High			
[1,1'-Biphenyl]-3,3	3',4,4'-tetramine, hydrochloride (1:4)	7411-49-6	
Vermont Chemicals of Hig			
	contain any listed chemicals		
Washington Chemicals of	-		
	contain any listed chemicals		
California Prop. 65			
	n expose you to chemicals including [1,1'-B s/are known to the State of California to cau arnings.ca.gov.		
California Occupational C	arcinogen Control Act of 1976 Carcinoge	ens	
[1,1'-Biphenyl]-3,3	3',4,4'-tetramine, hydrochloride (1:4)	7411-49-6	
California Regulated Carc	inogens		
[1,1'-Biphenyl]-3,3	3',4,4'-tetramine, hydrochloride (1:4)	7411-49-6	
The ingredients of this pro	oduct are reported in the following inven	tories:	
AIIC	: Not in compliance with the inventory		
DSL	SL : This product contains the following components that are not on the Canadian DSL nor NDSL.		
	Imidazole, sodium derivative		
	Sodium stannate trihydrate		
	2(1H)-Pyridinone		
NZIoC	: Not in compliance with the inventory		
ENCS	: Not in compliance with the inventory		
ISHL	: Not in compliance with the inventory		
KECI	: Not in compliance with the inventory		
PICCS	: Not in compliance with the inventory		
IECSC	: Not in compliance with the inventory		
	32 / 13		



Version	Revision Date:	Date of last issue: 02-07-2021
1.12	10-10-2021	Date of first issue: 11-30-2015
TCSI	: Not in com	pliance with the inventory

TSCA

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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

H202 / DAB H2O2

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Hydrogen peroxide (H2O2)	7722-84-1	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	: No S	ARA Hazards
SARA 313	know	material does not contain any chemical components with on CAS numbers that exceed the threshold (De Minimis) rting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

Hydrogen peroxide (H2O2)

7722-84-1



Ор	OptiView DAB Detection Kit							
Vers 1.12			Revision Date: 10-10-2021		Date of last issue: 02-07-2021 Date of first issue: 11-30-2015			
	Pennsylv	ania Right To Knov	N					
		Water Hydrogen peroxide	(H2	202)	7732-18-5 7722-84-1			
	Maine Cl	nemicals of High Co						
		Product does not contain any listed chemicals						
	Vermont	Chemicals of High						
		Product does not co		•	icals			
	Washing	ton Chemicals of H	-		ingle.			
Product does not contain any listed ch								
	AllC	edients of this prod	uct	-	he following inventories: or in compliance with the inventory			
	AIIC		·	On the inventory,	or in compliance with the inventory			
	DSL		:	All components o	f this product are on the Canadian DSL			
	NZIoC		:	On the inventory,	or in compliance with the inventory			
	ENCS		:	On the inventory,	or in compliance with the inventory			
	ISHL		:	On the inventory,	or in compliance with the inventory			
	KECI		:	On the inventory,	or in compliance with the inventory			
	PICCS		:	On the inventory,	or in compliance with the inventory			
	IECSC		:	On the inventory,	or in compliance with the inventory			
	TCSI		:	On the inventory,	or in compliance with the inventory			
	TSCA		:	All substances lis	ted as active on the TSCA inventory			

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Peroxidase Inhibitor

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Hydrogen peroxide (H2O2)	7722-84-1	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Hydrogen peroxide (H2O2)	7722-84-1	1000



Version 1.12	Revision E 10-10-202		Date of last issue: 02-07-2021 Date of first issue: 11-30-2015
SARA 311/312 Hazaro	ds :	Skin corrosion or Serious eye dam	irritation age or eye irritation
SARA 313	:	known CAS num	s not contain any chemical components with pers that exceed the threshold (De Minimis) stablished by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Roche

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know					
Hydrogen peroxide (H2	202)	7722-84-1			
Pennsylvania Right To Know					
Water Hydrogen peroxide (H2	202)	7732-18-5 7722-84-1			
Maine Chemicals of High Conc	ern				
Product does not conta	ain any listed chemicals				
Vermont Chemicals of High Co	oncern				
Product does not conta	ain any listed chemicals				
Washington Chemicals of High	Concern				
Product does not conta	ain any listed chemicals				
California List of Hazardous Su	ubstances				
Hydrogen peroxide (H2	202)	7722-84-1			
California Permissible Exposu	re Limits for Chemical Contaminants				
Hydrogen peroxide (H2	202)	7722-84-1			
California List of Acutely Hazar	rdous Chemicals, Toxics and Reactive	es			
Hydrogen peroxide (H2	202)	7722-84-1			
The ingredients of this product are reported in the following inventories:					
AIIC :	On the inventory, or in compliance with	the inventory			
DSL :	All components of this product are on t	he Canadian DSL			



Version 1.12	Revision Date: 10-10-2021	Date of last issue: 02-07-2021 Date of first issue: 11-30-2015				
NZIoC	: Not in compl	iance with the inventory				
ENCS	: On the inven	tory, or in compliance with the inventory				
ISHL	: On the inven	tory, or in compliance with the inventory				
KECI	: On the inven	tory, or in compliance with the inventory				
PICCS	: On the inven	tory, or in compliance with the inventory				
IECSC	: On the inven	tory, or in compliance with the inventory				
TCSI	: On the inven	tory, or in compliance with the inventory				
TSCA	: All substance	es listed as active on the TSCA inventory				

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Copper

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Copper(II) sulfate, pentahydrate	7758-99-8	10	2000

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

This material does not contain any components with a section 302 EHS TPQ.

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

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).



Versio 1.12	on	Revision Dat 10-10-2021	е:	Date of last issue: 0 Date of first issue: 1			
	Clean Water Act						
	The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, 7 ble 116.4A:						
	Copper(II) tahydrate	sulfate, pen-	7758-99-8	>=	= 0.1 - < 1 %		
	Acetic acio The following Hazard 117.3:		64-19-7 are listed unde		= 0.1 - < 1 % er Act, Section 311, Table		
	Copper(II) tahydrate	sulfate, pen-	7758-99-8		= 0.1 - < 1 %		
:	307	t contain any to	-	sted under the U.S. C	= 0.1 - < 1 % Clean Water Act Section		
	This product does no US State Regulatior		riority pollutants	related to the U.S. C	lean water Act		
	Massachusetts Rigl						
	No compo	nents are subje	are subject to the Massachusetts Right to Know Act.				
	Pennsylvania Right	To Know					
	Water Copper(II) Acetic acic	sulfate, pentah		7732-18-5 7758-99-8 64-19-7			
	Maine Chemicals of	-					
	Product does not contain any lister Vermont Chemicals of High Concern Product does not contain any lister			icals			
				icolo			
,	Washington Chemic		-	icais			
	•	•	any listed chem	icals			
	The ingredients of t		-		pries:		
	AIIC	: 0	n the inventory,	or in compliance with	h the inventory		
	DSL	: A	Il components c	f this product are on	the Canadian DSL		
	NZIoC	: N	ot in compliance	e with the inventory			
	ENCS	: 0	n the inventory,	or in compliance with	h the inventory		
	ISHL	: 0	n the inventory,	or in compliance with	h the inventory		
	KECI	: 0	n the inventory,	or in compliance with	h the inventory		
	PICCS	: 0	n the inventory,	or in compliance with	h the inventory		
	IECSC	: 0	n the inventory,	or in compliance with	h the inventory		
	TCSI	: O	n the inventory,	or in compliance with	h the inventory		
	TSCA	: A	Il substances lis	ted as active on the	TSCA inventory		



Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

HRP Multimer

GHS label elements

Not a hazardous substance or mixture. HQ Universal Linker

GHS label elements

Not a hazardous substance or mixture.

DA

DAB		
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H350 May cause cancer.
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response:
		P308 + P313 IF exposed or concerned: Get medical advice/ attention.
		Storage: P405 Store locked up.
		Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
H202 / DAB H2O2		
GHS label elements	or mi	N turo

Not a hazardous substance or mixture. Peroxidase Inhibitor



OptiView DAB Detection Kit						
Version 1.12	Revision Date: 10-10-2021	Date of last issue: 02-07-2021 Date of first issue: 11-30-2015				
GHS label elements Hazard pictograms		•				
Signal Word	: Danger					
Hazard Statements		es skin irritation. es serious eye damage.				
Precautionary Statem	Prevention P264 Wash	n: n skin thoroughly after handling. [,] protective gloves/ eye protection/ face prot	ection.			
	P305 + P3 water for se and easy to CENTER/ o P332 + P3 tion.	52 IF ON SKIN: Wash with plenty of soap a 51 + P338 + P310 IF IN EYES: Rinse cautio everal minutes. Remove contact lenses, if p o do. Continue rinsing. Immediately call a P	ously with resent OISON ce/ atten-			

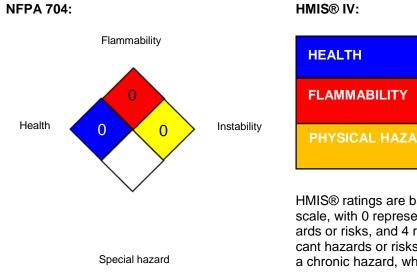
Copper

GHS label elements

Further information

Not a hazardous substance or mixture.

SECTION 16. OTHER INFORMATION



HMIS® IV:

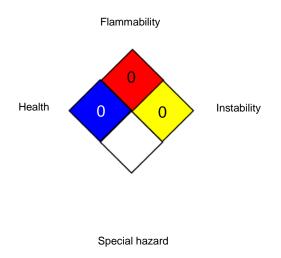


HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.



Version 1.12 Revision Date: 10-10-2021

NFPA 704:



Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

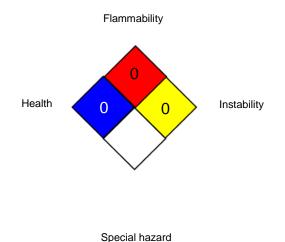
HMIS® IV:

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

NFPA 704:



HEALTH*0FLAMMABILITY0PHYSICAL HAZARD0

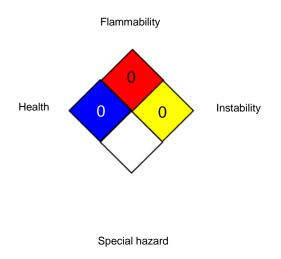
HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.



Version 1.12

Revision Date: 10-10-2021

NFPA 704:



Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

HMIS® IV:

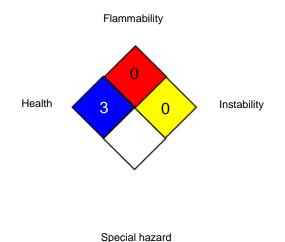
HMIS® IV:

HEALTH



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

NFPA 704:



1 3 FLAMMABILITY 0 PHYSICAL HAZARD 0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

41 / 43

NFPA 704:

Health



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Flammability

0

Version 1.12 Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

HMIS® IV:



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Full text of other abbreviations

Special hazard

0

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 Harmonized 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 Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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 - Organization 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



OptiView DAB Detection Kit

Version 1.12

Revision Date: 10-10-2021

Date of last issue: 02-07-2021 Date of first issue: 11-30-2015

Revision Date

: 10-10-2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8 / 2010