SAFETY DATA SHEET

national diagnostics

Conforms to regulation (EC) no. EU 453/2010

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: Hydrogen Peroxide Assay Kit - Reagent A Product Number: CL-204A

1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Investigational research by professional users

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer

National Diagnostics 305 Patton Drive Atlanta, GA 30036 (404) 699-2121 (800) 526-3867

info@nationaldiagnostics.com

1.4 Emergency Telephone Number

ChemTel Inc.

Contract number MIS8894340 1-800 255-3924 (United States, Canada, Puerto Rico & US Virgin Islands) 01-800-099-0731 (Mexico) 400-120-0751 (China) 000-800-100-4086 (India) 1-300-954-583 (Australia) 0-800-591-6042 (Brazil) +1-813-255-3924 (All other regions)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to regulation (EC) No. 1272/2008.

2.2 Label Elements

This product has no labeling elements associated with EC directives or respective national laws.

2.3 Other Hazards

None found.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Names/Description

Aqueous solution of sorbitol and xylenol orange

Component List

Component	% Comp.	CAS#	EC#	1278/2008 Classification
SORBITOL	2	50-70-4		N.A.
XYLENOL ORANGE	< 1	63721-83-5		N.A.

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

Skin

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation

SORBITOL:

Coughing.

XYLENOL ORANGE:

Coughing, shortness of breath.

Ingestion

SORBITOL:

Nausea and stomach upset possible with extremely large oral doses.

XYLENOL ORANGE:

Nausea, vomiting, and diarrhea.

Skin

SORBITOL:

No adverse effects expected.

XYLENOL ORANGE:

Pain and redness.

Eyes

SORBITOL:

Redness and itching with mechanical irritation.

XYLENOL ORANGE:

Pain and redness.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Unknown/not applicable

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use media appropriate to the primary cause of fire.

5.2 Special Hazards Arising from the Substance/Mixture

Hazardous Combustion Products

Thermal decomposition products may include carbon monoxide, carbon dioxide, and hydrocarbons.

Hazardous Decomposition Products

Not available.

Hazardous Polymerization

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

5.3 Advice for Firefighters

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

5.4 Further Information

No data available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

If water solvent has evaporated, wear NIOSH approved air-purifying respirator.

6.2 Environmental Precautions

Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

6.3 Methods and Materials for Containment and Cleaning Up

Contain and clean up spill immediately, prevent from entering floor drains. Contain liquids using absorbents. Shovel all spill materials into disposal drum. Scrub spill area with detergent, flush with copious amounts of water.

6.4 References to Other Sections

For disposal information, see Section 13. For protective clothing and equipment, see Section 8.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

7.2 Conditions for Safe Storage (including any incompatibles)

Keep in a tightly closed container, stored in a cooled, dry, ventilated area.

Incompatibles

SORBITOL:

Oxidizers, sulfuric acid and nitric acid.

XYLENOL ORANGE:

Strong oxidizing agents, strong reducing agents.

7.3 Specific End Uses

Investigational research by professional users

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS

8.1 Control Parameters

Component: SORBITOL

ACGIH Threshold Limit Value (TLV): None established OSHA Permissable Exposure Limit (PEL): None established

Component: XYLENOL ORANGE

ACGIH Threshold Limit Value (TLV): None established OSHA Permissable Exposure Limit (PEL): None established

8.2 Exposure Controls

Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

Respiratory Protection

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection

Wear protective gloves and clean body covering clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical & Chemical Properties

a. Appearance	Dark, straw colored liquid	b. Odor	None
c. Odor Threshold	N.A.	d. pH	not available
e. Melting/Freezing Point (°C)	-5	f. Boiling point (°C)	104
g. Flash Point (°C)	N.A.	h. Evaporation Rate	1.0
i. Flammability	N.A.	j. Upper/Lower Flammability or Explosive Limits	N.A.
k. Vapor Pressure	N.A.	I. Vapor Density (Air = 1)	N.A.
m. Relative Density	1.0	n. Water Solubility	Very soluble
o. Partition Coefficient n-octanol/water	mixture	p. Autoignition Temperature (°C)	N.A.
q. Decomposition Temperature (°C)	N.A.	r. Viscosity	No data available.
s. Explosive Properties	N.A.	t. Oxidizing Properties	Not an oxidizer

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive under normal conditions of use.

10.2 Chemical Stability

Stable under recommended conditions of use and storage.

10.3 Possibility of Hazardous Reactions

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

10.4 Conditions to Avoid

Keep from contact with oxidizing materials.

10.5 Incompatible Materials

SORBITOL

Oxidizers, sulfuric acid and nitric acid.

XYLENOL ORANGE:

Strong oxidizing agents, strong reducing agents.

10.6 Hazardous Decomposition Products

Not available.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product LD50 Values

Oral Rat LD50 (mg/kg)

> 100000

Dermal Rabbit LD50 (mg/kg)

No Data

Component Cancer List Status

NTP Carcinogen

	Known	Anticipated	IARC Category
SORBITOL	No	No	None
XYLENOL ORANGE	No	No	None

Potential Health Effects

Inhalation

SORBITOL

Not expected to be a health hazard. In dry form, sucrose is a nuisance dust. Inhalation of high concentration may cause upper respiratory tract irritation.

XYLENOL ORANGE

Dust is irritating to the respiratory tract.

Ingestion

SORBITOL

Extremely large oral doses may produce gastrointestinal disturbances.

XYLENOL ORANGE

May cause general intestinal irritation with nausea, vomiting and diarrhea.

Skin

SORBITOL

No adverse effects expected.

XYLENOL ORANGE

May cause irritation. Low hazard for normal industrial handling.

Eyes

SORBITOL

No adverse effects expected but in dry form, dust may cause mechanical irritation.

XYLENOL ORANGE

Causes irritation, redness, and pain.

Carcinogenicity

SORBITOL

Not listed as a known or anticipated carcinogen by NTP or IARC.

XYLENOL ORANGE

Not listed by NTP or IARC as a known or possible carcinogen.

Mutagenicity

SORBITOL

No information found.

XYLENOL ORANGE

No information found.

Reproductive Toxicity

. SORBITOL

No information found.

XYLENOL ORANGE

No information found.

Teratogenic Effects

SORBITOL

No information found.

XYLENOL ORANGE

No information found.

Routes of Entry

SORBITOL

No information found.

XYLENOL ORANGE

Ingestion, Inhalation, or through the skin.

Target Organ Statement

SORBITOL

No information found.

XYLENOL ORANGE

No information found.

SECTION 12 - ECOLOGICAL INFOMATION

12.1 Toxicity

COMPONENT: SORBITOL

	Vertebrates	Invertebrates	Algae	Microorganisms
Aquatic Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data
	Birds	Arthropods	Plants	Microorganisms
Terrestrial Environment Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data
COMPONENT: XYLENOL ORANGE				
	Vertebrates	Invertebrates	Algae	Microorganisms
Aquatic Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data
	Birds	Arthropods	Plants	Microorganisms
Terrestrial Environment Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data

12.2 Persistence and Degradability

SORBITOL

No data

XYLENOL ORANGE

No data

12.3 Bioaccumulative Potential

SORBITOL

No data

XYLENOL ORANGE

No data

12.4 Mobility in Soil

SORBITOL

No data

XYLENOL ORANGE

No data

12.5 Results of PBT and vPvB Assessment

SORBITOL

No data

XYLENOL ORANGE

No data

12.6 Other Adverse Effects

SORBITOL

XYLENOL ORANGE

None

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

SECTION 14 - TRANSPORT INFORMATION

	ADR/RID	IATA	IMO	DOT
14.1 UN Number	N.A.	N.A.	N.A.	N.A.
14.2 Shipping Name	not regulated	not regulated	not regulated	not regulated
14.3 Hazard Class	N.A.	N.A.	N.A.	N.A.
14.4 Packing Group	N.A.	N.A.	N.A.	N.A.
14.5 Environmental Hazards	N.A.	N.A.	N.A.	N.A.
14.6 Special Precautions	N.A.	N.A.	N.A.	N.A.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance/Mixture United States

TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
SORBITOL	Yes	No	No	No	No
XYLENOL ORANGE	NA	NA	NA	NA	NA

Europe

EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

SECTION 16 - OTHER INFORMATION

Revisional Updates

4/26/2019 - Updated Section 1.4 5/29/2015 - Updated Sections 2.1 and 3.2 10/14/2013 - Released Version 1.0

NFPA Codes

Health 1 Flammability 0 Reactivity 0

Dangers

SORBITOL

None

XYLENOL ORANGE

None

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