

## Hot Tub Serum® Total Cleanse

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union REACH Regulations

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Hot Tub Serum® Total Cleanse
PRODUCT DESCRIPTION:	Hot Tub Serum® Total Cleanse is a unique, non-acidic, blend of concentrated "new generation" cleaners and scrubbers that help
	dislodge the build-up that accumulates inside the piping, jets and
	equipment. This build-up can contain scum, soap products, lotions,
	oils, cosmetics and other contaminants that adversely effects the
	water quality and clarity. Use in hot tubs, jetted bathtubs, whirlpools,
	pedicure tubs, hydrotherapy tubs and other closed-loop vessels used
	for bathing, soaking and general recreational enjoyment or therapy.
	This is Part 1 of a 2 Part maintenance program. We recommend that
	you purge your hot tub every 6 months or sooner if needed.
U.N. NUMBER:	NA Non Desculated Material
U.N. DANGEROUS GOODS CLASS:	Non-Regulated Material
MANUFACTURER'S NAME: ADDRESS:	Unique Solutions, Inc. 1210 Biver Club Drive, Vere Beach, Eleride 22062, 2066, USA
EMERGENCY PHONE:	1319 River Club Drive, Vero Beach, Florida 32963-3966 USA 860-798-3198
BUSINESS NUMBER:	860-896-0836
EMAIL ADDRESS:	east@hottubserum.net
WEB SITE:	www.SerumWatercare.com
DATE OF PREPARATION:	August 1, 2019
DATE OF LAST REVISION:	New

## **SECTION 2 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** This product is a blue gel with an organic odor.

This product is not expected to cause adverse health effects when used as directed. Prolonged or repeated exposure may cause skin irritation. Direct eye contact may cause eye irritation. May be harmful if swallowed. This product is a non-flammable liquid.

The Environmental effects of this product have not been investigated.

US DOT SYMBOLS

Complies with WHMIS 2015

CANADA (WHMIS) SYMBOLS

EUROPEAN and (GHS) Hazard Symbols

Non-Regulated

Signal Word: Warning!

### CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1910.1200 (OSHA HCS) AND THE **EUROPEAN UNION DIRECTIVES:**

This product has been classified as defined by 29 CFR 1910.1200 (USA) and the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

### COMPONENT(S) CONTRIBUTING TO CLASSIFICATION(S)

All Ingredients

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EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

EC# 231-791-2 This substance is not classified in the Annex VI of Directive 67/548/EEC Proprietary Blend - This substance is not classified in the Annex VI of Directive 67/548/EEC COMPONENT(S) CONTRIBUTING TO CLASSIFICATION(S) All Ingredients



## Hot Tub Serum® Total Cleanse

### LABEL ELEMENTS:

#### **GHS HAZARD CLASSIFICATION(S):**

Acute Oral Toxicity Category 4 Skin Irritant Category 2 Eye Irritant Category 2

### Hazard Statement(s):

H302: Harmful if swallowed H315: Causes skin irritation

H319: Cause serious eve irritation

### **RESPONSE STATEMENT(S):**

P301+P312: IF SWALLOWED: Call a Poison Center/Doctor

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

P332+P313: If skin irritation occurs: 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.

P337+P313: If medical eve irritation persists: Get advice/attention.

### HEALTH HAZARDS OR RISKS FROM EXPOSURE:

ACUTE: This product is not expected to cause adverse health effects when used as directed. Prolonged or repeated skin exposure may cause irritation. Direct eye contact may cause irritation with possible burning and/or tearing.

CHRONIC: None Known

TARGET ORGANS:

ACUTE: Eye, Skin

P264: Wash hands thoroughly after handling P270: Do not eat, drink or smoke when using this product

**Precautionary Statement(s):** 

### STORAGE STATEMENTS(S):

P404: Store in a closed container

### **DISPOSAL STATEMENT(S):**

P501: Dispose of contents/container in accordance with local/national/international regulations.

> CHRONIC: None Known

## SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	GHS HAZARD CLASSIFICATION(S);
Water	7732-18-5	231-791-2	Not Listed	45 - 55%	Not Classified
Proprietary Blend	Proprietary	Proprietary	Not Listed	45 - 55%	H302: Acute Oral Toxicity Cat 4, H315: Skin Irritation Cat 2, H319: Eye Irritation Cat 2
Balance of other ingredients are non-ha reproductive toxins, or respiratory sensitive toxins and the sensitive toxins are sensitive toxins and the sensitive toxins are sensitive toxins and the sensitive toxins are sens					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

## SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if blurred vision occurs or irritation persists.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing dificulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin, or respiratory problems may be aggravated by prolonged exposure to this product.



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**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and reduce over-exposure.

#### **SECTION 5 - FIRE-FIGHTING MEASURES**

### FLASH POINT: AUTOIGNITION TEMPERATURE: FLAMMABLE LIMITS (in air by volume, %):

### FIRE EXTINGUISHING MATERIALS: UNUSUAL FIRE AND EXPLOSION HAZARDS:

Explosion Sensitivity to Mechanical Impact: Explosion Sensitivity to Static Discharge: SPECIAL FIRE-FIGHTING PROCEDURES: Non-Flammable Not Applicable Lower (LEL): NA

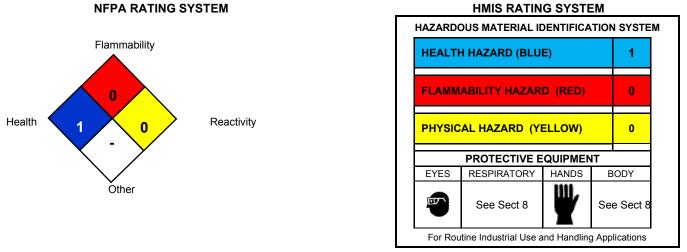
Upper NA (UEL):

Dry chemical, foam, carbon dioxide or water fog.

Water based solution that is not expected to be a fire or explosion hazard. Irritating and toxic gases or fumes may be released during a fire.

No No

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.



Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**SPILL AND LEAK RESPONSE:** Personnel should be trained for spill response operations.

**SPILLS:** Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with an absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

## **SECTION 7 - HANDLING and STORAGE**

WORK PRACTICES AND HYGIENE PRACTICES: Wash thoroughly after handling this product. STORAGE AND HANDLING PRACTICES: Product should be stored in original containers under normal conditions



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## **SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION**

#### **EXPOSURE LIMITS/GUIDELINES:**

Chemical Name	CAS#	ACGIH TWA	OSHA TWA
Water	7732-18-5	Not Listed	Not Listed
Proprietary Blend	Proprietary	Not Listed	Not Listed

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne mist/vapor/dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

- **RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.
- **EYE PROTECTION:** Splash goggles or safety glasses with side shields recommended where splashing is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.
- **HAND PROTECTION:** Compatible protective gloves recommended as appropriate for task. Wash hands after removing gloves. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.
- **BODY PROTECTION:** Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

### **SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES**

PHYSICAL STATE: APPEARANCE & ODOR: ODOR THRESHOLD (PPM): VAPOR PRESSURE (mmHg): VAPOR DENSITY (AIR=1): EVAPORATION RATE (nBuAc = 1): BOILING POINT (C°): FREEZING POINT (C°): pH: SPECIFIC GRAVITY 20°C: (WATER =1) SOLUBILITY IN WATER (%) VOC: Liquid Blue gel with an organic odor. Not Available Not Available Not Available 212°F Not Available 8.0 – 8.9 Not Available Complete Nil

## **SECTION 10 - STABILITY and REACTIVITY**

### **STABILITY:** Product is stable

**DECOMPOSITION PRODUCTS:** When heated to decomposition this product produces Oxides of carbon (COx) and hydrogen chloride fumes.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Strong oxidizing agents, and reducing agents. **HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Contact with incompatible materials, extreme temperatures and freezing conditions.



## Hot Tub Serum® Total Cleanse

### SECTION 11 - TOXICOLOGICAL INFORMATION

CAS#	Oral LD50	Dermal LD50	Inhalation LC50			
7732-18-5	No Data Available	No Data Available	No Data Available			
Proprietary	No Data Available	No Data Available	No Data Available			
Acute Oral Toxicity Acute Oral Toxicity Category 4						
Skin Corrosion / Irritation Skin Irritant Category 2						
Serious Eye Damage / Irritation Eye Irritant Category 2						
Respiratory or Skin Sensitization Based on available data, the classification criteria are not m						
Bas	Based on available data, the classification criteria are not met					
Based on available data, the classification criteria are not met						
Reproductive Toxicity Based on available data, the classification criteria are not me						
posure Based on available data, the classification criteria are not met						
STOT – Repeated Exposure Based on available data, the classification criteria are not						
iration Hazard Based on available data, the classification criteria are not me						
	7732-18-5 Proprietary Acut Skin on Eye ation Base Base Base Base Base	7732-18-5No Data AvailableProprietaryNo Data AvailableAcute Oral Toxicity CategoSkin Irritant Category 2onEye Irritant Category 2ationBased on available data, thBased on available data, th	7732-18-5 No Data Available No Data Available   Proprietary No Data Available No Data Available   Acute Oral Toxicity Category 4 Skin Irritant Category 2   on Eye Irritant Category 2   ation Based on available data, the classification criteri   Based on available data, the classification criteri			

**SUSPECTED CANCER AGENT:** None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies. **IRRITANCY OF PRODUCT:** Contact with this product may be irritating to exposed skin and/or eyes.

**SENSITIZATION OF PRODUCT:** This product is not considered a sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No data available

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE: Possible skin irritation with prolonged exposure.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: None known

ASPIRATION HAZARD: None

### **SECTION 12 - ECOLOGICAL INFORMATION**

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION. TOXICITY: No data available PERSISTENCE AND DEGRADABILITY: No specific data available on this product. **BIOACCUMULATIVE POTENTIAL:** No data available. **MOBILITY IN SOIL:** No data available. RESULTS OF PBT AND vPvB ASSESSMENT: No specific data available on this product. **OTHER ADVERSE EFFECTS:** None known. WATER ENDANGERMENT CLASS: Water endangering in accordance with EU Guideline 91/155-EWG. Not determined SECTION 13 - DISPOSAL CONSIDERATIONS

# **PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

### **SECTION 14 - TRANSPORTATION INFORMATION**

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Non-Regulated Material HAZARD CLASS NUMBER and DESCRIPTION: None UN IDENTIFICATION NUMBER: None PACKING GROUP: None



## Hot Tub Serum® Total Cleanse

DOT LABEL(S) REQUIRED: None

### NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): NA

**MARINE POLLUTANT:** None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

## **SECTION 15 - REGULATORY INFORMATION**

### UNITED STATES REGULATIONS

**SARA REPORTING REQUIREMENTS:** This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals. **SARA 311/312:** 

Acute Health: Yes Chronic Health: No Fire: No Reactivity: No

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain ingredient(s) are on the California Proposition 65 lists.

### CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: All of the components of this product are on the DSL Inventory CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this

product is on the CEPA First Priorities Substance Lists. CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is categorized as a Class D Division 2B, as per the

Controlled Product Regulations

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION:

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

### JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

## **SECTION 16 - OTHER INFORMATION**

PREPARED BY: Paul Eigbrett

GHS MSDS Compliance PLUS

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### End of SDS Sheet