

MIAMI PRODUCTS & CHEMICAL CO.

SAFETY DATA SHEET

SDS ID: SQ5
Revision Date: May 26, 2015
Revision No.: 1

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

GHS Product identifier:	Sanygen Revitalize
Other means of identification:	Item codes: S-Q5-01
Synonyms:	None
Recommended use:	Clarifies overloaded pools and clears water of vandalism.
Restriction on Use:	None known.
Manufacturer:	Address: Miami Products & Chemical Co. 520 Lonoke St. Dayton, OH 45403 Tel: (800) 776-1313 Fax: (937) 253-1559
24 Hour Emergency Telephone Number:	CHEMTREC: (800) 424-9300 within the United States CHEMTREC: (703) 527-3887 if international CHEMTREC Contract No: CCN14419

SECTION 2: HAZARD IDENTIFICATION

OSHA REGULATORY STATUS: This material is NOT considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC) or not covered by GHS: None identified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Common Chemical Name	Percent (%)	CAS Number
Trade Secret	Trade Secret	Trade Secret
All other components of this product are either non-hazardous or below de-minimus quantities.		

SECTION 4: FIRST-AID MEASURES

General advice: If in immediate danger, move out of the affected areas. Show this Safety Data Sheet (SDS) to the attending medical personnel and make sure they are aware of the material(s) involved.

Inhalation: Remove person to fresh air. If breathing difficulty or discomfort occurs and persists, seek medical attention.

Skin Contact: Take off contaminated clothing. Wash with plenty of soap and water for at least 15 minutes. Get medical attention if irritation develops and persists.

Eye Contact: Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. After the first 5 minutes of flushing remove contact lenses, if present and easy to do, and continue rinsing. If irritation persists, repeat flushing. Seek medical attention.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink water or milk to dilute. If irritation persists, seek medical attention.

Most Important Symptoms and Effects (Both Acute and Delayed): None known.

Medical Conditions Aggravated by Exposure: None known.

Protection of First-Responders: Protect yourself by avoiding contact with this material. Avoid contact with skin and eyes. Do not breathe mist and/or vapors. Do not ingest. Use personal protective equipment (PPE). Refer to Section 8 for specific personal protective equipment recommendations.

Notes to Physician: Treatment is symptomatic and supportive.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water, water fog, carbon dioxide (CO₂), dry chemical, or foam. Use extinguishing media suitable for type of surrounding fire.

Specific hazards arising from the chemical: None known.

Special protective actions for fire-fighters: Firefighters should wear protective equipment and NIOSH approved self-contained breathing apparatus (SCBA) with full face piece operated in positive pressure mode in a fire involving this material. Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid contact with skin, eyes and clothing and avoid breathing fumes, vapour, mist, or spray.

Environmental precautions: While this product is not likely to cause any harm to neither the environment nor aquatic organisms, it is good practice to not discharge into drains, sewers, water courses or onto the ground.

Methods and materials for containment and cleaning up: For small spills, flush to waste treatments sewer (product is biodegradable). For large spills, contain the spill and collect the material for reuse or disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Use air conveying/mechanical systems for bulk transfer to storage. Use approved respiratory protection when ventilation systems are not available. Keep material out of lakes, stream, ponds and sewer drains.

Conditions for safe storage: Store this product in a cool, dry area. Store in original container and keep this container tightly closed at all times when not in use. Store at room temperature and avoid excessive heat.

Incompatibilities/conditions to avoid: Strong acids or alkali compounds may inactivate biological cultures.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit(s): As listed below

PERMISSIBLE EXPOSURE LIMITS						
INGREDIENT CAS NO.	OSHA		WISHA*		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

*WISHA (the Washington Industrial Safety and Health Act of 1973)

Appropriate engineering controls: Where possible, provide general mechanical and/or local exhaust ventilation to prevent the release of airborne mist or vapors into the work environment.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.

Skin protection: Special skin protection should not be required.

Respiratory protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Thermal hazards: Not applicable.

General hygiene practices: It is important to observe good personal hygiene measures, which should include washing immediately after handling this product and before eating, drinking, smoking,

chewing gum, or using the toilet. Routinely wash work clothing to remove any residual contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Pale yellow to translucent
Odor	Slight odor
Odor threshold	No data available
pH	4.0-4.5
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	Not applicable
Evaporation rate	No data available
Flammability limit – lower (%)	Not applicable
Flammability limit – upper (%)	Not applicable
Explosive limit – lower (%)	Not applicable
Explosive limit – upper (%)	Not applicable
Vapor Pressure	No data available
Vapor Density	No data available
Relative density	0.995-1.008 @ 21° C (69.8° F)
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Under normal handling and storage conditions, this product is not reactive.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None under normal conditions.

Conditions to avoid: None known.

Incompatible materials: Strong acids or alkali compounds may inactivate biological cultures.

Hazardous decomposition products: None known.

Hazardous polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY DATA

Information on likely routes of exposure

- Ingestion:** Not a likely route of exposure in a workplace setting.
- Inhalation:** Inhalation of mists/vapors may be slightly irritating to the nose and throat.
- Skin contact:** Not likely to cause any skin irritation.
- Eye contact:** Non-irritating.

Symptoms related to the physical, chemical and toxicological characteristics: None known.

Germ cell mutagenicity: No data available.

Carcinogenicity

- IARC:** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
- ACGIH:** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP:** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
- OSHA:** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available.

Specific target organ toxicity – single exposure: None known.

Specific target organ toxicity – repeated exposure: None known.

Aspiraton hazard: No data available.

Chronic effects: None known.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

If this product, as supplied, becomes a waste, it may meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

Disposal methods: Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.

Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. See Disposal methods.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA STATUS: All components are listed.

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ
Not applicable	Not applicable	Not applicable

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SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
NO	NO	NO	NO	NO

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

U.S. STATE REGULATIONS

CALIFORNIA PROPOSITION 65: This product does not contain any Proposition 65 chemicals.

U.S. STATE RIGHT TO KNOW REGULATIONS: This product does not contain any substances regulated by state right to know regulations.

SECTION 16: OTHER INFORMATION

SDS Preparation Date:	May 26, 2015
SDS Revision Date:	May 26, 2015
SDS Revision No.:	1

REASONS FOR REVISION:

- Updated SDS header
- Changed the SDS format to meet the GHS requirements of the revised 2012 OSHA HCS (29 CFR 1910.1200)
- Product identifier has been added or updated (See Section 1)
- Revised Hazards Identification information (See Section 2)
- Added GHS Information (See Section 2)
- Updated First-Aid Measures (See Section 4)
- Updated Fire Fighting Measures (See Section 5)
- Revised Accidental Release Measures (See Section 6)
- Revised Handling and Storage Recommendations (See Section 7)
- Updated Exposure Controls/Personal Protection (Section 8)
- Updated Physical and Chemical Properties (See Section 9)
- Updated Stability and Reactivity (Section 10)
- Updated Toxicological Information (Section 11)
- Updated Ecological Information (Section 12)
- Updated Disposal Considerations (See Section 13)
- Updated Regulatory Information (See Section 15)
- Added SDS Preparation Date, SDS Revision Date, and SDS Revision No. (See Section 16)
- Added "End of SDS Document" phrase

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- Added a list of abbreviations that may have been used in the SDS

ABBREVIATIONS (please note that not all abbreviations may appear on this SDS):

ACGIH = American Conference of Governmental Industrial Hygienist
CAS = Chemical Abstract Service
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
CFR = Code of Federal Regulations
DOT = Department of Transportation (United States)
DSL/NDL = Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS = European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
EN = European Norm
EPCRA = Emergency Planning & Community Right to Know Act (1986)
EU = European Union
GHS = Global Harmonization System
HMIS = Hazardous Materials Information System
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IDLH = Immediately Dangerous to Life or Health
IMDG = International Maritime Dangerous Goods (Code)
ICAO = International Civil Aviation Organization
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
N.O.S. = Not Otherwise Specified
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PBT = Persistent Bioaccumulative and Toxic
PEL = Permissible Exposure Limit;
pH = A measure of the acidity or alkalinity of a solution
PSM = Process Safety Management
RQ = Reportable Quantity
SARA = Superfund Amendments and Reauthorization Act
SDS = Safety Data Sheet
STOT = Specific Target Organ Toxicity
TLV = Threshold Limit Value
TPQ = Threshold Planning Quantity
TSCA = Toxic Substance Control Act
TWA = Time-weighted Average
UN = United Nations

DISCLAIMER: This SDS generally complies with the requirements set forth in 29 CFR 1910.1200 and Annex 5, Fifth Edition (2014) Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Miami- Products & Chemical Co. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Miami Products & Chemical Co. be responsible for damages of any nature whatsoever resulting from the use of, misuse or reliance upon information. No representations or warranties, either

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expressed or implied, or merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure its activities comply with federal, State, Provincial, and local laws and regulations.

The information contained in this SDS is subject to revision as additional knowledge, information, and experience is gained.

END OF SDS DOCUMENT