MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

Product Identifier: **SCARLIGHT MD**

Supplier Name and Address
Scarguard Labs, LLC
15 Barstow Road
Great Neck, NY 11021

Manufacturer's Name and Address:
Water-Jel Technologies
50 Broad Street
Carlstadt, NJ 07072

24 Hour Emergency Telephone #: 877-722-7482

SECTION 2 – CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS

Ingredients	CAS #	% (weight)	OSHA PEL	ACGIH TLV	LC50 (rat, inh) (4hr)	LD50(mg/kg) Rat, oral	LD50(mg/kg) Dermal, rabbit
Ethyl alcohol	64-17-5	15 – 40	1000 ppm	1000 ppm	N/Av	7,060	N/Av
Propylene glycol	57-55-6	15 – 40	N/Av	N/Av	N/Av	20,300 (mouse)	20,800
Acetone	67-64-1	1 – 5	1000 ppm	500 ppm	71,000mg/m^3	5,800	>16,000
Hydroquinone	123-31-9	1 – 5	2mg/m^3	2mg/m^3	N/Av	320	>3,840 (mouse)
Kojic Acid	501-30-4	1 – 5	N/Av	N/Av	N/Av	N/Av	N/Av
Azealaic Acid	123-99-9	1 – 5	N/Av	N/Av	N/Av	>5,000	N/Av
Hydroxyanisole	150-76-5	0.5 – 1.5	N/Av	5mg/m^3	N/Av	1,630	N/Av
Cystamine	56-17-7	0.1 – 1.0	N/Av	N/Av	N/Av	896	N/Av

SECTION 3 – HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Target organs: Eyes, skin, respiratory system, central nervous system, digestive system
Signs and symptoms of short-term (acute) exposure:

Inhalation: Through normal, intended use, inhalation of this product should not cause any harmful effects. Inhalation may cause irritation to the nose, throat, and respiratory system. Symptoms of overexposure may include headache, nausea, dizziness, drowsiness and other central nervous system effects.
Skin contact: Skin contact may cause mild skin irritation.
Eye contact: Direct eye contact may cause moderate to severe irritation. Symptoms may include discomfort, tearing and redness.
Ingestion: Through normal, intended use, ingestion of this product should not occur. Swallowing may cause irritation to the mouth, throat and stomach. Symptoms of overexposure may include headache, nausea, dizziness, drowsiness and other central nervous system effects.
Sensitization to material: May cause skin sensitization.
Effects of long-term (chronic) exposure: Repeated skin exposure causes depigmentation of the skin. Prolonged or repeated skin exposure may cause drying and cracking of the skin (dermatitis).
Other important hazards: CNS depression may result from exposure. Ingestion may cause aspiration of the chemical into the lungs which can result in life-threatening lung injury.

SECTION 4 – FIRST AID MEASURES

Inhalation: Immediately move the person to fresh air. If breathing stops, provide rescue breathing. Obtain medical attention.
Skin contact: Wash skin with mild soap and lukewarm water, while removing contaminated clothing. If irritation persists, call a physician. Launder clothing before re-use.
Eye contact: Flush eyes with running water for at least 15 minutes. Obtain medical attention immediately.
Ingestion: If swallowed, DO NOT induce vomiting. This material is a potential aspiration hazard. Obtain medical attention immediately.

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SECTION 5 – FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability: Not considered flammable. However, this material may ignite when exposed to heat, sparks, and flame. Vapors may be heavier than air and collect in low-lying areas and confined spaces. Closed containers may build up pressure when exposed to heat.

Flash point (Method): N/Ap (Method – N/Ap)

Auto-ignition temperature: N/Av

Lower flammable limit (% by volume): N/Av

Upper flammable limit (% by volume): N/Av

Explosion data: *Sensitivity to mechanical impact:* No.
Sensitivity to static charge: Not expected to be sensitive to static discharge.

Oxidizing properties: No

Suitable extinguishing media: Use media suitable to the surrounding fire such as dry chemical, carbon dioxide, foam and water fog.

Special fire-fighting procedures/equipment: Fire-fighters should wear full protective clothing and a NIOSH approved self-contained breathing apparatus, with a full-face piece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors, and cooling equipment and containers exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.

Hazardous combustion products: Carbon oxides

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus.

Environmental precautions: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. Dike far ahead of the spill for later recovery or disposal.

Spill response/Cleanup: Ventilate area of release. Eliminate all sources of ignition. Stop leak if you can do so without risk. Contain spilled liquid and absorb with non-combustible absorbent material (such as vermiculite), then place absorbent material into a container for later disposal (see Section 13). Flush spill area with water. DO NOT use ammonia or bleach-type cleaning products to clean the spill area. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Prohibited materials: None known.

SECTION 7 – HANDLING AND STORAGE

Safe handling procedures: This material is a toxic liquid. Wear protective equipment during handling. Use with adequate ventilation. Avoid inhaling vapors and mists. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling, and before eating or smoking. Keep away from heat, sparks and flame. Keep away from moist air and sunlight. Keep away from oxidizing agents, bases and incompatibles. Keep container tightly closed when not in use. IMPORTANT – Do not use after expiration date.

Storage requirements: Store in a cool, dry, well-ventilated area away from heat and incompatibles. Protect from light. Inspect periodically for damage or leaks. No smoking in the area

Incompatible materials: Strong oxidizing agents (includes bleach type products, hydrogen peroxide), strong bases, strong acids, reducing agents and moist air.

Special packaging materials: Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: Use with adequate ventilation to meet TLV requirements.

Respiratory protection: Respiratory protection is required if the airborne concentration exceeds the TLV. Advice should be sought from respiratory protection specialists.

Protective gloves: Wear gloves impervious to the material. Advice should be sought from glove suppliers.

Eye protection: Wear safety glasses with side shields or chemical goggles to prevent splashes from entering the eyes.

Other protective equipment: Wear protective clothing to cover as much of the exposed skin as possible. An eyewash station should be made available in the immediate working area.

Permissible exposure levels: See Section 2.

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical form: Clear, slightly viscous liquid
Odor: Slight alcohol
pH: 3.5 – 4.0
Specific gravity: N/Av
Coefficient of oil/water distribution: N/A
Solubility in water (%): Very soluble
Evaporation rate (nBuAc=1): N/Av
Volatile organic compounds (VOCs): N/Av
Appearance: Slight amber color
Odor threshold: N/Av
Boiling point: N/Av
Melting/freezing point: N/Av
Vapor pressure: N/Av
Vapor density (Air=1): N/Av
Percent Volatile by Weight: 33

SECTION 10 – REACTIVITY AND STABILITY DATA

Stability and reactivity: Stable under the recommended storage and handling condition prescribed. Hazardous polymerization will not occur. May form Carbon Monoxide in direct sunlight. Exposure to moist air and light may form the more volatile and irritating 1, 4-Benzoquinone
Conditions to avoid: Extreme hear, flame, sunlight and moist air.
Materials to avoid: Incompatible materials (see Section 7).
Hazardous decomposition products: 1, 4-Benzoquinone.

SECTION 11 – TOXICOLOGICAL INFORMATION

LD_{50}: See Section 2.
Lc_{50}: See Section 2.
Routes of exposure: Skin contact, eye contact, inhalation and ingestion.
Toxicological data: There is no available data for the product itself, only for the ingredients.
Carcinogenicity: Contains Hydroquinone. Hydroquinone is classified as a confirmed animal carcinogen with unknown human relevance by ACGIH (Group A3).
Teratogenicity, mutagenicity, other reproductive effects: Contains Ethyl alcohol. Ethyl alcohol may cause mutations to reproductive and somatic cells.
Sensitization to material: May cause skin sensitization.
Synergistic materials: N/Av
Conditions aggravated by exposure: Pre-existing skin and respiratory disorders.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects: The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.
Important environmental characteristics: N/Av
Aquatic toxicity: There is no data available on the product itself**.**

SECTION 13 – WASTE DISPOSAL

Handling for disposal: Handle waste according to recommendations in Section 7.
Methods of disposal: Containers should be disposed of in accordance with all applicable federal, provincial, state and local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Transportation of Dangerous Goods (TDG) information: This product, as supplied, is not regulated for transport by ground within Canada.
US 49 CFR information: This product, as supplied, is not regulated for transport by ground within the Continental US.
IATA information: This product, as supplied, is not regulated for transport by air.

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SECTION 15 – REGULATORY INFORMATION

WHMIS information: Class D1B (Untested mixture rules: LD_{50} Oral for Hydroquinone). **Class D2A** (Carcinogenicity, Mutagenicity). **Class D2B** (Eye irritant, skin sensitization).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), and this MSDS contains all the information required by the CPR.

CEPA information: All ingredients, with the exception of Kojic Acid, are listed on the DSL/NDSL.
TSCA information: All ingredients, with the exception of Kojic Acid, are listed on the TSCA inventory.

SECTION 16 – OTHER INFORMATION

Legend: ACGIH – American Conference of Governmental Industrial Hygienists
CAS – Chemical Abstract Service
CEPA – Canadian Environmental Protection Act
DSL – Domestic Substances List
IARC – International Agency for Research on Cancer
ITA – International Air Transport Association
Inh – Inhalation
N/Ap – Not Applicable
N/Av – Not Available
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
OSHA – Occupational Safety and Health Act
PEL – Permissible Exposure Limit
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
US 49 CFR – United States Code of Federal Regulations, Title 49
WHMIS – Workplace Hazardous Material Information System

References: ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2002
International Agency for Research on Cancer Monographs, Supplement 7, 1998.
Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2003 (Chempendium and RTECs).
Material Safety Data Sheet from the Manufacturer

Prepared by: Scarguard Labs, LLC
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Preparation Date: June 18, 2009