


Form #:	SDS-112
Revision Date:	03/05/2021
Revision #:	01
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Section 1: Identification			
Product Name:	Reduce It®	Product Type / Description:	Poultry Water Acidifier/pH adjuster
Recommended Use:	Poultry Water Acidifier/pH adjuster	Other Means of Identification:	None
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.		
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108	Emergency Number: 1-800-424-9300 (CHEMTREC)	
Telephone Number:	1-888-273-3088		

Section 2: Hazard Identification	
GHS Classification	Hazard Statements
Corrosive to metals: Category 1 Skin Corrosion/Irritation: Category 2 Serious Eye Damage/Eye Irritation: Category 2A Specific target organ toxicity, single exposure: Category 3 Hazardous to the aquatic environment, acute hazard: Category 3 Hazardous to the aquatic environment, long-term hazard: Category 3	H315: Causes skin irritation. H318: Causes serious eye damage. H335: May Cause respiratory irritation. H402: Harmful to aquatic life with long lasting effects.
Pictograms	Signal Word
	WARNING
Precautionary Statements	
General	Response
P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use.	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Move person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER/doctor. P363: Wash contaminated clothing before reuse.
Prevention	Storage / Disposal
P260: Do not breathe mist, spray, vapors. P264: Wash thoroughly after handling. P273: Avoid release to the environment. P280: Wear eye protection, face protection, protective clothing, protective gloves	P405: Store locked up. P404+P233 Store in a well-vented space. Keep container tightly closed. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / Information on Ingredients		
Components	CAS-No	% Composition (w/w)
Sulfuric Acid	7664-93-9	35.0-45.0%
Water	7732-18-5	40.0-55.0%
Sodium Sulfate anhydrous	7757-82-6	3.0-7.0%

Section 4: First-Aid Measures	
Eye Contact:	Immediately rinse with plenty of water for at least 15 minutes and get medical attention immediately
Skin Contact:	Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

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Ingestion:	Do if swallowed, do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Most important symptoms/effects acute and delayed:	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage could result. May cause respiratory irritation. Skin Irritation. May cause redness and point, cracking or flaking of the skin, color change and swelling of the affected area.
Indication of immediate medical attention and special treatment needed:	Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Chemical burns: Flush with water immediately. While flushing, removed clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.
General Information:	If exposed or concerned: Get medical advice/attention. For personal protection, see section 8 of the SDS. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Section 5: Fire-Fighting Measures	
Suitable Extinguishing Media:	Carbon dioxide. Dry powder. Water spray. Foam. Sand.
Unsuitable Extinguishing Media:	Do not use a heavy water stream as this could spread the fire.
Combustion Products:	Fire may produce irritating, corrosive and/or toxic gases.
Unusual Fire and Explosion Hazards:	Emits toxic fumes (sulfur oxides, hydrogen sulfide gas) under fire conditions.
Protective Equipment for Firefighters:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. In case of fire, stop leak if safe to do so. When cooling/extinguishing: no water in the substance. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental Release Measures	
Personal Precautions:	Eliminate ignition sources. Ensure adequate ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Keep people away from and upwind of spill/leak.
Emergency Procedures:	Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact. Wash contaminated clothes. Evacuate unnecessary personnel. Keep containers closed.
Environmental Precautions:	Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters or unto the ground.
Methods and Material for Containment and Clean-Up:	Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations. Avoid release into the environment.

Section 7: Handling and Storage	
Handling:	Do not get in eyes, on skin, or on clothing. Remove contaminated clothing immediately. Use corrosion proof equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, spray, vapors.
Storage:	Keep container closed when not in use. Store in original container. Keep only in the original container in a cool, well ventilated place away from incompatible materials. Do not freeze. Store > 32°F-104°F. Keep away from direct sunlight and sources of ignition. Keep away from Food, drink, and animal feeding stuffs.
Incompatible Materials:	Bases, Strong oxidizing agents. Reducing agents. Metals.

Section 8: Exposure Controls / Personal Protection			
Components with Workplace Control Parameters			
Component	ACGIH	NIOSH	OSHA
Sulfuric Acid (CAS 7664-93-9)	TWA: 0.2 mg/m ³ Thoracic Fraction	TWA: 1 mg/m ³ - 8 hours.	TWA: 1 mg/m ³ - 8 hours.
Engineering Controls:	Ensure adequate ventilation. Emergency eye wash stations in the immediate vicinity of any potential exposure.		
General Hygienic Practices:	Do not eat, drink or smoke during use.		
Personal Protective Equipment:	Gloves. Safety glasses. Protective clothing. Chemical resistant apron.		

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Respiratory Protection:	Respiratory protection not required in normal conditions.
Eye / Face Protection:	Chemical goggles or face shield.
Hands:	Chemical resistant gloves.
Skin / Body:	Wear suitable protective clothing.
Biological Limit Values:	No biological exposure limits noted for the ingredients.
Control Banding approach:	Not available
Thermal Hazards:	Not applicable.

Section 9: Physical and Chemical Properties

Appearance:	Clear, colorless liquid to amber.	Odor:	Odorless.	Odor Threshold:	Not available.
pH:	1.5, 1% solution in water	Specific Gravity:	1.36 g/mL	Viscosity:	Not available.
Melting Point:	-0.4 °F (-18 °C)	Freezing Point:	Not available.	Boiling Point:	249.8 °F (121 °C).
Flash Point:	Not available.	Flammability:	Non-flammable.	Flammability Limits:	Not available.
Vapor Pressure:	Not available.	Vapor Density:	Not available.	Solubility:	Complete.
Evaporation Rate:	Not available.	Auto-Ignition Temperature:	Not available.	Decomposition Temperature:	Not available.
Relative Density:	Not available.	Partition Coefficient n-octanol / water:		Not available.	

Section 10: Stability and Reactivity

Reactivity:	Reacts violently with strong alkaline substances. This product may react with reducing agents. May be corrosive to metals.
Stability:	Stable under normal conditions.
Conditions to Avoid:	Contact with incompatible materials. Excessive heat. Protect from freezing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
Incompatible Materials:	Bases, Strong oxidizing agents. Reducing agents. Metals.
Hazardous Decomposition Products:	Sulfur oxides, hydrogen sulfide gas.

Section 11: Toxicological Information

Acute Toxicological Data

Oral LD50:	2140 mg/kg (rat)	Dermal LD50:	Not available.	Inhalation LC50:	2 hours - 510 mg/m ³ (rat)
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Likely Routes of Exposure: Inhalation, eye contact, skin contact.



Symptoms and Effects

Condition	Acute Effects	Chronic (Delayed) Effects
Eye Contact:	Causes serious eye damage.	None.
Skin Contact:	Causes severe skin burns.	None.
Inhalation:	May cause respiratory tract irritation.	None.
Ingestion:	Harmful if swallowed.	None.
Respiratory sensitization:	Not a respiratory sensitizer.	None.
Skin Sensitization:	This product is not expected to cause skin sensitization.	None.
Germ cell mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	None.
Reproductive Toxicity:	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity.(single exposure):	May cause respiratory irritation.	
Specific target organ toxicity.(repeated exposure):	Not classified.	
IARC/NTP Carcinogenicity	Known to be human Carcinogen.	

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Section 12: Ecological Information		
Ecotoxicity:	Harmful to aquatic life with long lasting effects. Because of the low pH of the product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. Avoid release to the environment.	
Persistence and Degradability:	Not available.	
Bioaccumulation Potential:	Not available.	
Mobility in Soil:	Not available.	
Other Adverse Effects:	Avoid release to the environment. No other adverse Environmental effects are expected from these components.	
Components: Sodium sulfate anhydrous (CAS 7757-82-6) Aquatic Crustacea Fish	EC50 Water Flea (ceriodaphnia dubia) LC50 Striped bass (Morone saxatilis)	2807-3535 mg/l 48 hours. 790mg/l, 96 hours.
Components: Sulfuric acid (CAS7664-93-9) Aquatic Algae Crustacea Fish	ErC50 Algae EC50 Daphnia Daphnia magna (water flea) Lc50 Bluegil (Iepomis macrochirus) Brachydanio rerio (Zebra fish)	>100 mg/l, 72 hours, >100 mg/l, 48 hours (nominal). 29 mg/l, 24 hours. 16-28 mg/l, 96 hours. >500 mg/l, 96 hours.

Section 13: Disposal Considerations	
Waste from Residues and Unused Product:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
Contaminated Container Disposal:	Do not reuse or refill this container. Triple rinse empty containers with clean water. Clean and empty containers are to be recycled or placed in the trash.
Disposal instructions:	Avoid release to the environment. Do not allow this material to drain into sewers/water supplies. Do not discharge into drains, water course or onto the ground. Do not contaminate ponds, waterways, or ditches with chemical, or material, review and implement appropriate technical and procedural waste-water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practices. The best available technology should be utilized to present environmental releases. This may include destructive techniques for waste and wastewater.
Hazardous waste code:	D002: Waste Corrosive material [pH<=2 or =>12.5 or corrosive to steel]

Section 14: Transport Information						
	UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Label (Subsidiary)	Packing Group	Marine Pollutant
US DOT	UN3264	Corrosive liquids, Inorganic n.o.s (Sulfuric Acid)	8	Corrosive	III	NO
						
IATA IMDG	UN3264UN3264	Corrosive liquids, Inorganic n.o.s (Sulfuric Acid)	8	Corrosive	III	NO
						
Special Precautions:		Read safety instructions, SDS and emergency procedures before handling. Transport in accordance with local, state and federal regulations.				

Section 15: Regulatory Information			
TSCA Inventory List:	Not Regulated	US EPA CERCLA List (40 CFR 302.4) Listed Hazardous Substances:	Sulfuric Acid 1000 lbs.



SAFETY DATA SHEET (SDS)

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SARA Title III Sec. 302/303	Sulfuric Acid		Sec. 302 TPQ:	Sulfuric Acid 1000 lbs.	
SARA Title III Sec. 311/312	Hazardous chemical: Yes Sulfuric Acid	Hazard Category:	Acute Health		Sec. 304 EHS RQ: Sulfuric Acid 1000 lbs.
US EPA EPCRA Sec. 313 (TRI Reporting)	Not applicable. (not in aerosol form)		CAA Threshold Qty:	Not applicable.	
NFPA Rating	Health: 3	Flammability: 0	Reactivity: 2	Special:	W (Reacts with water in an unusual or dangerous manner)
HMIS Rating	Health: 3	Flammability: 0	Physical: 1	PPE:	Recommended.
CAN WHMIS Classification	E – Corrosive, D1A - Material causing other toxic effects (VERY TOXIC).				
California Prop 65	WARNING: This product can expose you to Sulfuric acid, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .				

Section 16: Other Information

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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For additional information, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com

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Key to Abbreviations

ACGIH - American Conference of Governmental Industrial Hygiene	TWA - Time-Weighted Averages are based on 8h/day, 40h/week exposures
NIOSH - National Institute of Occupational Safety and Health	STEL - Short Term Exposure Limits are based on 15-minute exposures
OSHA - Occupational Safety and Health Administration	STEV - Short Term Exposure Value
EHS - Environmental Health and Safety	PEL - Permissible Exposure Limit
DOT - Department of Transportation	CAN TDG - Canadian Transportation of Dangerous Goods
EPA - Environmental Protection Agency	TSCA - Toxic Substances Control Act
TPQ - Threshold Planning Quantity	RQ - Reportable Quantity
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act	SARA - Superfund Amendments and Reauthorization Act
NFPA - National Fire Protection Association	HMIS - Hazardous Materials Identification System
WHMIS - Workplace Hazardous Materials Information System (Canada)	EPCRA - Emergency Planning and Community Right-to-Know Act