


Material Safety Data Sheet

	Red Bird	Health:	2 - Moderate
	S e r v i c e	Fire:	0 - Minimal
		Reactivity:	0 - Minimal

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MSDS: 98975

Prep Date: 3/22/2001

Product: S660-4LITER (Sulfuric Acid Solution)

Revision: 9

Section 1 - Chemical Product and Company Identification

Product Chemical Name: A chemical mixture

Chemical Formula: A chemical mixture

CAS No:

Manufacturer: Red Bird Services PO Box 155 205 Western Avenue Osgood IN 47037

For Emergency, Call Chemtree 24 hours a day....800-424-9300

Catalog Number: S-607, S-646, S-652, S-655, S-681, SX-1034, SX-1071, SX-1081, SX-1093, SX-1094, SX-1114, SX-1127, SX-1134, SX-1145, SX-1174, SX-1176, SX-929, SX-939, SX-959, SX-992

Synonym: None listed

Section 2 - Composition/Information on Ingredients

Ingredients	CAS Number	% wt or N
Water	7732-18-5	Balance
Sulfuric Acid	7664-93-9	>0.25 - <2.9

OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
TWA	STEL	TWA	STEL	TWA	STEL	IDLH
None Estab. 1 mg/m3	None Estab. 1 mg/m3	None Estab. None Estab.	None Estab. 1 mg/m3	None Estab. None Estab.	None Estab. 15 mg/m3	None Estab. None Estab.

Section 3 - Hazard Information

Primary Entry Route: Inhalation, digestion, and skin contact

Target Organs: Eyes, skin, respiratory system, and teeth.

Acute Effects: Irritation of nose, eyes, skin, and respiratory system to damage. May cause nausea, vomiting of blood and eroded tissue, holes in the stomach and intestines, shock, and kidney damage. Death may occur with as little as 1 oz.

Inhalation: Irritant

Eye: Dangerous

Skin: Irritant

Ingestion: Dangerous

Carcinogenicity: Not considered to be by IRAC, OSHA, and NTP. ACGIH does list under their ID 1 list.

Medical Conditions: None listed,

Chronic Effects: Exposure to amounts greater than 3.0 mg/m³ may cause all of the above symptoms in greater severity. (NYDH).

Section 4 - First Aid Measures

Inhalation: Move to fresh air, give oxygen if difficulty in breathing. Get medical attention.

Eye Contact: Flush with water for at least 15 minutes, including under eyelids. Get medical attention.

Skin Contact: Flush with water for 15 minutes. If irritation persists, get medical attention.

Ingestion: Give water to drink to dilute material. Do not induce vomiting. Never give anything by mouth to anyone who is unconscious or convulsing. Get medical attention.

Special Precautions: NA.

Section 5 - Fire Fighting Measures

Flash Point: N/A

Burning Rate: N/A

Auto Ignition: N/A
Temperature

LEL: N/A

UEL: N/A

Flammability
Classification: 0

Extinguishing

Media: Use that of surrounding fire.

Unusual Fire/Explosion Hazards: None listed

Hazardous Combustion Products: None unless strength is above 80 - 90 %.

Instructions: Do not release runoff from fire control methods, to sewers, or waterways.

Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (scba) with a full facepiece operated with pressure demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill/Leak Procedures: Cover with dry earth, dry sand, or non-combustible material followed by plastic sheet to minimize spreading .

Small Spills: Cover with dry earth, dry sand, or non-combustible material followed by plastic sheet to minimize spreading .

Large Spills: For containment; dike far ahead of the spill. Cover with dry earth, dry sand, or non-combustible material. Use clean non-sparking tools to collect material and place in plastic container for disposal. Do not release into sewer or waterways.

Regulatory Requirement: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling

Precautions: Wear safety glasses, goggles, or face shield, safety gloves, personal protective clothing, or respirator or airlines as required in section 8 in this MSDS.

Storage

Requirements: Store in closed container, cool, dry, in well-ventilated area, away from source of heat, and incompatible materials.

Regulatory

Requirement: See section 15 of this MSDS.

Section 8 - Exposure Controls/ Personal Protection

Engineering

Controls: N/A

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative

Controls: N/A

Respiratory

Protection: Seek professional advice prior to respirator selection and use, Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear a MSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels or storage tanks), wear an SCBA. Warning! Air purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective

Clothing/

Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety glasses. Per OSHA eye-and-face-protection regulations (29 CFR 1910.133)..

Safety

Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated

Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Contact lenses are not safety protection; soft lenses absorb and all lenses concentrate exposure. Practice good personal hygiene after use of this material especially before eating, drinking, smoking, using the toilet or applying cosmetics. Never eat, drink, or smoke in work areas.

Section 9 - Physical and Chemical Properties

Physical State: Pure substance is solid below 51 F, often used in aqueous solutions.

Odor Threshold: Pungent (NYDH)

pH: NA

Vapor Press: 0.001mm Hg @ 20 C**Boiling Point:** 554.09 in pure form.**Vapor Density:** N/A**Freezing/ Melting Point:** NA**Formula Weight:** N/A**Viscosity:** N/A**Density:** 1.84 mg/m³ @ C**Refract Index:** N/A**Spec Gravity:** As water in solutions**Surface Tension:** N/A**% Volatile:** NA**Appearance****Odor:** Clear colorless liquid**Evaporation****Rate:** NA**Water****Solubility:** CompleteN/A**Section 10 - Stability and Reactivity****Stability:** Stable**Polymerization:** Cannot not occur**Chemical****Incompatibilities:** A strong mineral acid reacting with bases and metals. The concentrated acid is an oxidizing agent and can cause ignition of combustible materials. It is also a dehydrating agent, picking up moisture readily from the air or other materials.**Conditions to Avoid:** Reacts exothermically with water.**Hazardous****Decomposition****Products:** Sulfur oxides can result from decomposition.**Section 11 - Toxicological Information****Eye Effect:** Irritation**Skin Effect:** Irritation**Acute****Inhalation****Effects:** May cause irritation at 12-35 mg/m³. Fatal with few drops in lung air passage.**Acute Oral****Effects:** Sec11aTIAcuOrEff**Chronic Effects:** See section 3 in this MSDS.**Carcinogenicity:** Not listed**Mutagenicity:** Not listed**Teratogenicity:** Not listed**Section 12 - Ecological Information**

Ecotoxicity: N/A

Environmental

Fate: N/A

Environmental

Transport: N/A

Environmental

Degradation: N/A

Soil

Absorption

Mobility: N/A

Section 13 - Disposal Considerations

Disposal: See section 6 of this MSDS for information. Follow all Federal, State, and Local regulations.

Disposal

Regulatory

Requirements: See section 15 of this MSDS.

Container

Cleaning and

Disposal: N/A

Section 14 - Transport Information

Shipping Name: Not regulated

Shipping Symbol: N/A

Nn-Blk Packaging: N/A

Hazard Class: N/A

Bulk Packaging: N/A

Id No: N/A

Quantity Limitations:

Packing Group: N/A

Passenger, Air, or Rail: N/A

Label: N/A

Cargo Aircraft Only: N/A

Special Provision: N/A

Vessel Stowage Requirements:

Packaging

Vessel Stowage: N/A

Exceptions: N/A

Other: N/A

Section 15 - Regulatory Information

EPA Regulation:

RCRA hazardous waste number: Not listed (40 CFR 261.33)

RCRA hazardous Waste classification: (40 CFR 261.??): Not classified.

CERCLA hazardous Substance (40 CFR 302.4) listed/ specific peer RCRA, Sec 3001; CWA, Sec 311 (b)(4); CWA,,Sec 307(a), CAA, Sec 12

CERCLA Reportable Quality (RQ)

SARA 311/312 Codes:

SARA Toxic Chemical (40 CFR 372.65):

SARA EHS (Extremely hazardous substance)(40 CFR 355): Not listed, Threshold Planning Quality (TPQ) Listed

OSHA Regulations:

Air contaminant (29 CFR 1910.1000, Table Z-1-A):

OSHA Specifically Regulated Substance(29 CFR 1910.1000)

State Regulations: STCC Listed,

DOT(40 CFR 172.101 Append.)

ACGIH Threshold Limit Value:

MAK listed

TSCA listed

ANNEX I listed

Section 16 - Other Information

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Approved By: **Gene Feith** **Operation Manager** **Red Bird Service**

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