

# MATERIAL SAFETY DATA SHEET

HMS Designation  
DEGREE OF HAZARD  
4 = Extreme  
3 = High  
2 = Moderate  
1 = Slight  
0 = Insignificant

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>

## SOLFLOC 4280

### SECTION 1: IDENTIFICATION

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**EMERGENCY PHONE: ChemTel 1-800-255-3924**

EFFECTIVE DATE: 10/22/2012

REVISED: N/A

NAME AND ADDRESS:

PHONE: (205) 424-1919

SOLE, INC.

5521 PARKWOOD CIRCLE

BESSEMER, AL 35022

PRODUCT NAME: **SOLFLOC 4280**

CHEMICAL DESCRIPTION: Inorganic metal salt coagulant / flocculent in aqueous solution

### SECTION 2: INGREDIENTS

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INGREDIENTS	CAS NO.	%WT	PEL
Trade Secret	Trade Secret	100%	*15mg/m <sup>3</sup> (TD) SOLUBLE SALTS: *5mg/m <sup>3</sup> (RF) *2mg/m <sup>3</sup> (TWA)

\*Aluminum metal, (as Al)

### SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW: Corrosive Liquid! Clear to slightly hazy, colorless to yellow liquid with a slight amine odor.  
May cause skin, eye and respiratory irritation.**

#### ROUTES OF EXPOSURE

INHALATION: Inhalation of mist or spray may irritate respiratory tract.

SKIN CONTACT: May cause skin irritation, especially on prolonged contact.

SKIN ABSORPTION: No Data

EYE CONTACT: Direct eye contact may cause irritation, redness, and swelling. Prolonged exposure to Aluminum salts may cause conjunctivitis.

INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### SECTION 4: FIRST AID MEASURES

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EYES: Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical attention.

SKIN: Wash thoroughly with soap and water, remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention if irritation should develop.

INHALATION: Remove to fresh air.

INGESTION: Seek medical attention immediately. Give large amounts of water to drink. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Aluminum soluble salts may cause gastroenteritis if ingested. Treatment includes the use of demulcents. Note: Consideration should be given to the possibility that overexposure to materials other than this product may

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have occurred

### SECTION 5: FIREFIGHTING MEASURES

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FLASHPOINT: N/A

AUTOIGNITION TEMPERATURE: N/A

LOWER FLAMMABILITY LIMIT: N/A

UPPER FLAMMABILITY LIMIT: N/A

EXTINGUISHING MEDIA: Water Spray, Carbon Dioxide, Foam, Dry Chemical.

FIRE OR EXPLOSION HAZARDS: May produce hazardous fumes or hazardous decomposition products.

FIRE FIGHTING PROCEDURES: Product is a water solution and nonflammable. In a fire, this product may build up pressure and rupture a sealed container; cool exposed containers with water spray.

Use self-contained breathing apparatus in confined areas; avoid breathing vapors or dust.

### SECTION 6: ACIDENTAL RELEASE MEASURES

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SPILL AND LEAK PROCEDURES:

Stop leaks. Clean up spill immediately. Build dikes as necessary to contain flow of large spills. Do not allow liquid to enter stream or waterways. For small spills, use soda ash to neutralize, an inert material to absorb, or wash product to a chemical sewer. Place contaminated materials into containers and store in a safe place to await proper disposal. Wear adequate personal protective clothing and equipment. Caution use of soda ash may generate carbon dioxide gas. Provide adequate ventilation to spill area. Approved breathing apparatus may be necessary.

Disposal should be in accordance with local, state or national legislation.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

### SECTION 7: HANDLING & STORAGE

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PRECAUTIONARY STATEMENTS:

**CAUTION!**

**CORROSIVE LIQUID!**

**MAY CAUSE IRRITATION.**

Avoid contact with eyes, skin, and clothing.

Avoid breathing mist or spray.

Wear chemical splash goggles, gloves, and protective clothing when handling.

Use with adequate ventilation and employ respiratory protection where mist or spray may be generated.

Wash thoroughly after handling.

May be harmful if swallowed or inhaled.

Keep away from heat and open flame.

Keep container closed when not in use.

FOR INDUSTRIAL USE ONLY.

HANDLING/STORAGE REQUIREMENTS:

Store in a cool, dry place away from direct heat. Keep container tightly closed when not in use. Do not store in unlined metal containers. Product may slowly corrode iron, brass, copper, aluminum and stainless and mild steel.

STORAGE TEMPERATURE: 40 – 100 °F

HANDLING / STORAGE: Protect from freezing.

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### SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

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VENTILATION REQUIREMENTS: Local exhaust ventilation recommended.

EYE PROTECTION: Chemical splash goggles and/or face shield.

SKIN PROTECTION: Chemical resistant gloves.

RESPIRATORY PROTECTION: When exposures exceed the PEL, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134.

OTHER REQUIRED EQUIPMENT: Standard work clothing and work shoes. Safety shower and eyewash located in immediate area.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Clear to slightly hazy, colorless to yellow liquid

ODOR: Slight amine odor

SOLUBILITY IN WATER: Complete

pH: 2.0 – 3.0 (AS IS)

SPECIFIC GRAVITY (WATER=1): 1.233 - 1.253

DENSITY @ 25°C: 10.28 – 10.45 lb/gal

BOILING POINT: NAV

MELTING POINT: NAV

FREEZING POINT: NAV

EVAPORATION RATE: NAV

VAPOR PRESSURE: NAV

VAPOR DENSITY (AIR=1): NAV

VISCOSITY: NAV

VOLATILES BY WEIGHT: 40 - 65% (Water)

### SECTION 10: STABILITY AND REACTIVITY

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STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: NONE

INCOMPATIBLE MATERIALS: Product is incompatible with alkalis.

DECOMPOSITION PRODUCTS: Thermal decomposition may release toxic and/or hazardous gases such as aluminum, Cl<sub>2</sub>, and HCl.

### SECTION 11: TOXICOLOGICAL INFORMATION

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ROUTE OF ENTRY: Eye contact; Skin contact

Test data is based on a product of similar composition. Conclusions are drawn from sources other than direct testing.

This product is expected to be an irritant to the skin, eyes and mucous membrane. Irritation may become severe on prolonged contact.

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Component	IARC Group 1, Group 2A or Group 2B Carcinogen:	National Toxicology Program Known or Suspect Carcinogen:	ACGIH Confirmed or Suspected Carcinogen:	OSHA Select or Possible Select Carcinogen:
Trade Secret Ingredients ( 100% )	Not Listed	Not Listed	Not Listed	Not Listed

### EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE: Possible eye, skin and respiratory tract irritation.

CHRONIC OVEREXPOSURE: May aggravate existing skin, eye, and lung conditions. Persons with kidney disorders have an increased risk from exposure based on general information found on aluminum salts

### **SECTION 12: ECOLOGICAL INFORMATION**

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Aquatic Toxicity: No information available

### **SECTION 13: DISPOSAL CONSIDERATIONS**

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WASTE DISPOSAL METHODS: Disposal should be in accordance with local, state or national legislation.

EMPTY CONTAINER WARNINGS: Empty containers may contain product residue, follow MSDS and label warnings even after they have been emptied.

### **SECTION 14: TRANSPORTATION INFORMATION**

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This section provided for general information only. The shipping description below may not represent requirements for all modes of transportation, packaging, shipping methods or locations outside of the United States.

**FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.**

### **DOT CLASSIFICATION**

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Contains: POLYALUMINUM CHLOROSULFATE SOLUTION

UN 3264,

Hazard Class: 8

PG III

The information provided herein may not include the impact of additional regulatory requirements (eg, for materials meeting the definition of a hazardous waste under RCRA, hazardous substance under CERCLA, and/of marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

### **SECTION 15: REGULATORY INFORMATION**

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This product does not contain any ingredients subject to the reporting requirements of:  
SARA Title III, Section 313 (40 CFR Part 372).

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SARA Section 311/312: Acute Health Hazard.  
TSCA: Components found in TSCA Inventory

### SECTION 16: OTHER INFORMATION

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Prepared By: Solen, Inc.

Revision Notes: New, 10-22-2012

#### Legend:

PEL: OSHA Permissible Exposure Limit	TWA: Time Weighted Average, 8-hr	TD: Total dust
STEL: Short Term Exposure Limit	TLV: ACGIH Threshold Limit	ND: Nuisance dust
HI: Hazardous Ingredient	C.LIM: Ceiling Limit	INP: Inhalable Particulate
OM: Oil mist	WF: Wax fume	RF: Respirable fraction
NAV: Not Available	N/A: Not Applicable	NTES: None Established
TRSC: Trade Secret		

#### HMIS® Hazard Ratings

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs by OSHA's 29 CFR 1910.1200, we choose to provide them as a service to our customers using HMIS®. These ratings are to be used only with a fully implemented HMIS® program. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

NPCA recommends that employers must determine appropriate PPE for the actual conditions under which this product is used in their workplace. For information on PPE codes, consult the HMIS® Implementation Manual.

When two ratings are provided for Health, the first represents the material 'as supplied', and the second represents the material 'in use'.

\* = chronic health hazard

HMIS® is a registered trademark of the National Paint and Coatings Association (NPCA).

<u>Health</u>	2
<u>Flammability</u>	0
<u>Reactivity</u>	0

ADDITIONAL INFORMATION: The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.