



## SAFETY DATA SHEET

(according to (EC) 1907/2006)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier** Ammonium Bisulfite Solution

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Not provided.

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer Information:** Vertellus Health & Specialty  
Products LLC, P.O. Box 730,  
Delaware Water Gap, PA 18327  
USA

**Non-Emergency Fax Number:**

570-421-9012

**E-Mail Address:**

msds@vertellus.com

**Non-Emergency Phone Number:** 800-344-3426

**1.4. Emergency telephone number**

Vertellus: 800-344-3426

CHEMTREC (USA): (800) 424-9300

(collect calls accepted); (Int'l): (703) 527-3887

(collect calls accepted; 011 prefix not needed)

### SECTION 2: Hazards identification

HMIS Rating	
HEALTH	3
FLAMMABILITY	0
REACTIVITY	0

**2.1. Classification of the substance or mixture**

**(According to Regulation (EC) No 1272/2008)**

Skin Corrosion/Irritation Category 1B

**Signal Word:**

Danger

**Hazard Precautions:**

H314 - Causes severe skin burns and eye damage.

**2.2. Label elements**

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Hazard Symbols (Pictogram):



### Prevention Precautions:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P264 - Wash hands thoroughly after handling.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

### First Aid Precautions:

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see supplemental information on this label).

P310 - Immediately call a POISON CENTER or doctor/physician.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 - Wash contaminated clothing before reuse.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### Storage Precautions:

P405 - Store locked up.

### Disposal Precautions:

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

### Single Exposure Target Organs:

Not applicable

### Repeated Exposure Target Organs:

Not applicable

### (According to Directive 67/548/EEC)

Symbol: C

Risk Phrases: R34: Causes burns.

Safety Phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately.

### 2.3. Other hazards

**Signs and Symptoms of Potential Overexposure:** Vapor can irritate the eyes, nose, and respiratory tract. Corrosive. May cause severe damage including blindness Substance is corrosive. Causes severe skin burns. Can



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cause moderate injury (reddening and swelling). Breathing mists or vapors causes irritation of the nose, throat and respiratory tract. Inhaling vapors and mists of sulfite substances has been reported to cause asthma-like reactions in sensitive individuals. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Extreme over-exposure to mists or vapors may cause severe irritation and pulmonary edema (fluid in the lungs). Swallowing can cause severe irritation to the mouth, throat, and digestive system. May cause burns. Sulfite substances can cause asthma like symptoms in sensitive individuals if ingested, even at very small quantities. May cause vomiting. Small amounts of this product drawn into the lungs during ingestion or vomiting could cause a potentially life-threatening accumulation of fluid. May cause a severe allergic reaction in some asthmatics and sulfite-sensitive individuals.

Primary Route(s) of Exposure:

Skin contact and absorption, eye contact, ingestion, inhalation.

Medical Conditions Aggravated by Exposure:

No data found

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	EU Symbol	Risk Phrases
Water	7732-18-5	55.000000	231-791-2	N/A	Not applicable
Ammonium Bisulfite	10192-30-0	45.000000	233-469-7	C	R34

NOTE: See Section 8 of this MSDS for exposure limit data for these ingredients.  
See Section 15 of this MSDS for trade secret information (where applicable).  
See Section 16 of this MSDS for the full text of the R-phrases above.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- Skin Contact:** Wash thoroughly after skin contact.
- Eye Contact:** Immediately flush the eyes with plenty of water for at least 15 minutes. Call a physician.
- Inhalation:** Remove from exposure. If not breathing, give artificial respiration and call a physician.
- Ingestion:** If swallowed, do not induce vomiting. Get prompt medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Acute:** Vapor can irritate the eyes, nose, and respiratory tract. Corrosive. May cause severe damage including blindness. Substance is corrosive. Causes severe skin burns. Can cause moderate injury (reddening and swelling). Breathing mists or vapors causes irritation of the nose, throat and respiratory tract. Inhaling vapors and mists of sulfite substances has been reported to cause asthma-like reactions in sensitive individuals. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Extreme over-exposure to mists or vapors may cause severe irritation and pulmonary edema (fluid in the lungs). Swallowing can cause severe irritation to the mouth, throat, and digestive system. May cause burns. Sulfite substances can cause asthma like symptoms in sensitive individuals if ingested, even at very small quantities. May cause vomiting. Small amounts of this product drawn into the lungs during ingestion or vomiting could cause a potentially life-threatening accumulation of fluid. May cause a severe

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allergic reaction in some asthmatics and sulfite-sensitive individuals.

**Delayed Effects:** None known.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Thermal Exposure:** Not applicable.

**Note to Physician:** No additional first aid information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Appropriate Extinguishing Media:** Not established

### 5.2. Special hazards arising from the substance or mixture

**Hazardous Products of Combustion:** None Known

**Potential for Dust Explosion:** not available

**Special Flammability Hazards:** Not applicable.

### 5.3. Advice for firefighters

**Basic Fire Fighting Guidance:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Flammability Classification (OSHA):** Not applicable.

NFPA Rating



## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Evacuation Procedures:** Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Special Instructions:** Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be discarded.

### 6.2. Environmental precautions

Prevent releases to soils, drains, sewers, and waterways.

### 6.3. Methods and material for containment and cleaning up

**Containment Techniques and Clean-up Procedures:** Ensure clean-up measures are in compliance with OSHA (29 CFR 1910.120).



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Special Reporting Requirements: Not applicable.

### 6.4. Reference to other sections

Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for Unique Hazards: Not applicable.

Practices to Minimize Risk: Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material.

Special Handling Equipment: Not applicable.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage Precautions & Recommendations: Store in a dry area Store in a cool place in original container and protect from sunlight Store in a tightly closed container

Dangerous Incompatibility Reactions: Avoid strong acids, strong bases, and excessive heat.

Incompatibilities with Materials of Construction: none known

### 7.3. Specific end use(s)

If a chemical safety assessment has been completed an exposure scenario is attached as an annex to this Safety Data Sheet. Refer to this annex for the specific exposure scenario control parameters for uses identified in subsection 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure Limits (United States): OSHA PEL: Not established ACGIH TLV: Not established

### 8.2. Exposure controls

Also see the annex to this SDS (if applicable) for specific exposure scenario controls.

Personal Protective Equipment: Impervious gloves, boots, and clothing, chemical goggles or face shield where necessary, and a NIOSH approved chemical cartridge respirator or supplied air breathing apparatus.

Respirator Caution: Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.

Ventilation: All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.

Other Engineering Controls: All appropriate engineering controls should be used to minimize exposure potential. Use exhaust ventilation to keep airborne concentrations below exposure limits.

Thermal Hazards: Not applicable.

Additive or Synergistic Effects: None known.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance, State &amp; Odor (ambient temperature):</b> <b>Molecular Formula:</b>  <b>Vapor Pressure:</b> <b>Specific Gravity or Density:</b> <b>Boiling Point:</b> <b>Solubility in Water:</b> <b>pH:</b> <b>Viscosity:</b> <b>Flash Point and Method:</b>	Yellow solution  Not available.  Not available. 1.2 102 °C Miscible in water Not available.  Not available. (Not available.) ()	<b>Molecular Weight:</b>  <b>Evaporation Rate:</b> <b>Vapor Density (air = 1):</b> <b>Freezing / Melting Point:</b> <b>Octanol / Water Coefficient:</b> <b>Odor Threshold:</b> <b>Autoignition Temperature:</b> <b>Flammable Limits:</b>	18.01 g/mol 99.10 g/mol Not determined Not available. -26 °C Not available. 3 - 5 ppm for sulfur dioxide. Not available. Not available. (LEL) – Not available. (UEL)
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#### 9.2. Other information

Not applicable.

### SECTION 10: Stability and reactivity

<b><u>10.1. Reactivity</u></b> <b><u>10.2. Chemical stability</u></b> <b><u>10.3. Possibility of hazardous reactions</u></b> <b><u>10.4. Conditions to avoid</u></b> <b><u>10.5. Incompatible materials</u></b> <b><u>10.6. Hazardous decomposition products</u></b>	Not classified as dangerously reactive. Stable. However, may decompose if heated Not expected to occur. Elevated ambient temperatures. Incompatibles. Avoid strong acids, strong bases, and excessive heat. Ammonia. Thermal decomposition will generate sulfur dioxide. Toxic gases
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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>Acute Oral LD<sub>50</sub>:</b> <b>Acute Dermal LD<sub>50</sub>:</b> <b>Acute Inhalation LC<sub>50</sub>:</b> <b>Skin Irritation:</b> <b>Skin Sensitization:</b>	Oral LD50 (rat) > 90000 mg/kg Not available. Not available. No data available. No data available.
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Eye Irritation:	No data available.
Target Organs:	No data available.
Carcinogenicity:	No data available.
Teratogenicity:	No data available.
Reproduction:	No data available.
Neurotoxicity:	No data available.
Mutagenicity:	No data available.

### SECTION 12: Ecological information

<u>12.1. Toxicity</u>	Not available.
<u>12.2. Persistence and degradability</u>	No data No data available.
<u>12.3. Bioaccumulative potential</u>	No data
<u>12.4. Mobility in soil</u>	No data
<u>12.5. Results of PBT and vPvB assessment</u>	Not available.
<u>12.6. Other adverse effects</u>	No data available. Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

US EPA Waste Number: Not applicable

**Waste Disposal:** Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Note that disposal regulations may also apply to empty containers and equipment rinsates.

### SECTION 14: Transport information

<u>14.1. UN number</u>	UN2693
<u>14.2. UN proper shipping name</u>	Bisulfites, aqueous solutions, n.o.s. (Ammonium Bisulfite Solution)
<u>14.3. Transport hazard class(es)</u>	8
<u>14.4. Packing group</u>	PG III
<u>14.5. Environmental hazards</u>	Not applicable
<u>14.6. Special precautions for user</u>	Not available.
NA Emergency Guidebook Numbers: 154	IMDG EMS: S-B F-A



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**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

### SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>OSHA Hazards:</b>	Corrosive. Not applicable.
<b>WHMIS Classification:</b>	Class E: Corrosive Material. Class D, Division 2, Subdivision A: Very Toxic Material
<b>Chemical Inventory Lists:</b>	<b>Status</b>
TSCA:	Present
EINECS:	231-791-2 233-469-7
Canada(DSL/NDL):	DSL
Japan:	(1)-399
Korea:	KE-35400 KE-32677
Australia:	Present
New Zealand:	Present
China:	Present
Philippines:	Present
Switzerland:	Not Listed
<b>New Zealand GHS Classification:</b>	Non classificato da questo paese.
<b>Japan GHS Classification:</b>	Non classificato da questo paese.
<b>Korea (MOL) GHS Classification:</b>	Non classificato da questo paese.
<b>Australia GHS Classification:</b>	Non classificato da questo paese.
<b>Taiwan GHS Classification:</b>	Non classificato da questo paese.
<b>Indonesia GHS Classification:</b>	Non classificato da questo paese.
<b>SARA 313:</b>	Not applicable.

**15.2. Chemical safety assessment**

Not applicable.



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### SECTION 16: Other information

**Full text of R phrases in Section 3:** R34: Causes burns.

**Legend of abbreviations:**

ACGIH = American Conference on Governmental Industrial Hygienists.  
CAS = Chemical Abstracts Service.  
CERCLA = Comprehensive Environmental, Response, Compensation and Liability Act (1990).  
CFR = Code of Federal Regulations.  
DSL/NDSL = Domestic Substances List/Non-Domestic Substances List.  
EC = European Community.  
EEC = European Economic Community.  
EINECS = European Inventory of Existing Commercial chemical Substances.  
ELINCS = European List of Notified Chemical Substances.  
EU = European Union.  
GHS = Globally Harmonized System.  
LC = Lethal concentration.  
LD = Lethal dose.  
MOL = Ministry of Labor.  
NEMA = National Emergency Management Agency.  
NFPA = National Fire Protection Association.  
NIOSH = National Institute of Occupational Safety and Health.  
NTP = National Toxicological Program.  
OSHA = Occupational Safety and Health Administration  
PEL = Permissible exposure limit.  
RQ = Reportable quantity.  
SARA = Superfund Amendments and Reauthorization Act of 1986.  
TLV = Threshold limit value.  
WHMIS = Workplace Hazardous Materials Information System.

**Precautionary Statement:** Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

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**Original Date of Issue:** Not known or provided.

**Issued By:** Regulatory Management Department

**Revision Details:** Revised in all sections to GHS format.