

**I. PRODUCT AND COMPANY IDENTIFICATION**

Company:	Natural Advantage, LLC	Address:	1050 Cypress Creek Road Oakdale, Louisiana 71463
Telephone:	318-215-1456	Fax:	318-335-1579
Product Name:	Ammonium Sulfide, 20% in Water, Natural	Chemical Name:	Ammonium Sulfide
Product Number:	NA2053-20-H2O		

<b>EMERGENCY 24 HOUR CONTACT: ChemTrec</b>	<b>1-800-424-9300 Contract # 219030</b>
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**II. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Flammable liquids	Category 3
Skin corrosion	Category 1B
Serious eye damage	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

**NFPA Hazard Rating:**                      **Health: 3**                      **Fire: 3**                      **Reactivity: 0**

**Labeling according to Regulation (EC) No 1272/2008 [CLP]:**

Pictogram:

**Signal word:** Danger**Hazard statement:**

H226 Flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/eye protection/ face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
P363 Wash contaminated clothing before reuse.  
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P391 Collect spillage.  
P403+P235 Store in a well-ventilated place. Keep cool.

**III. COMPOSITION/INFORMATION ON INGREDIENTS**

Product Name:	Ammonium Sulfide, Natural 20% in Water	Chemical Name:	Ammonium Sulfide
Synonyms:	Information Not Available	CAS#:	12135-76-1
Formula:	(NH <sub>4</sub> ) <sub>2</sub> S	EINECS#:	235-184-3
Molecular Wt.:	68.14 g/mol		

**IV. FIRST AID MEASURES**

Inhalation	Remove from the exposure to fresh air. Contact a physician as necessary. If breathing is irregular or has stopped, start resuscitation and administer oxygen if available.
Eye Contact	Flush immediately with clean water for at least 15 minutes. Contact a physician if irritation persists.
Skin Contact	Remove any contaminated clothing or shoes. Wash affected areas thoroughly with soap and water. If irritation persists, contact a physician.
Ingestion	Do NOT induce vomiting. Give water to dilute. Contact a physician immediately.

**V. FIRE-FIGHTING MEASURES**

Flashpoint (Method Used):	60°C (140°F) (CC)
Lower Flammable Limit (% by Volume):	4%
Upper Flammable Limit (% by Volume):	46%
Extinguishing Media:	Water spray, Alcohol-resistant foam, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Self-contained breathing apparatus & protective clothing should be worn when fighting fires involving chemicals.
Unusual Fire and Explosion Hazards:	None
<b>NFPA Hazard Rating:</b>	Health: 3                      Fire: 3                      Reactivity: 0

**VI. ACCIDENTAL RELEASE MEASURES**

Steps to be taken in case material is released or spilled.	Eliminate all ignition sources. Ventilate area. Contain spill and recover free product. Report spill to appropriate authorities if required.
Waste Disposal Method	Place material into sealed containers and dispose of in accordance with current applicable laws and regulations.

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**VII. PRECAUTIONS FOR SAFE HANDLING AND USE**

Precautions to be taken in handling and storing:	Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use. Good manufacturing practices dictate that an eyewash fountain and/or safety shower should be available in the work area.
Other Precautions:	None.

**VIII. CONTROL MEASURES**

Occupational Exposure Limits:	Contains no substances with occupational exposure limit values.
Respiratory Protection:	None generally required. If desired use NIOSH approved respirator.
Ventilation:	Local exhaust meeting ACGIH criteria as needed.
Protective Gloves:	Use chemical resistant gloves.
Protective Eyewear:	Use splash goggles or face shield when eye contact might occur.
Other Protective Clothing or Equipment:	None required.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point:	Information Not Available	Specific Gravity (H <sub>2</sub> O = 1):	0.9573 - 0.9973
Vapor Pressure (mm Hg):	600 hPa (450 mmHg) at 20°C (68°F)	Flash Point:	60°C (140°F) (CC)
Vapor Density (AIR =1):	Information Not Available	Melting Point:	Information Not Available
Solubility in Water:	Soluble	Evaporation Rate:	Information Not Available
pH:	Information Not Available	Color:	Light Yellow to Yellow-Amber
Flammability (solid, gas):	Information Not Available	Oxidizing properties:	Information Not Available
Upper/lower flammability or explosive limits:	Information Not Available	Odor:	Stench
Autoignition temperature:	Information Not Available	Partition coefficient:	Information Not Available
Viscosity:	Information Not Available	Decomposition temperature:	Information Not Available
Appearance:	Clear Liquid	Explosive properties:	Information Not Available

**X. REACTIVITY DATA**

Stability:	Chemically Stable under recommended storage conditions.	Conditions to Avoid:	Heat, flames and sparks
Incompatibility with other Substance (Materials to Avoid):	Strong oxidizing agents		Vapours may form explosive mixture with air.
Hazardous Decomposition or Byproducts:	Carbon Oxides		
Hazardous Polymerization:	No		

**XI. TOXICOLOGICAL INFORMATION**

Acute toxicity: Information Not Available		Skin corrosion/irritation:	May be harmful
Serious eye damage/eye irritation:	Mild irritation 24 h	Respiratory or skin sensitization:	May be harmful
Germ cell mutagenicity:	Information Not Available	Reproductive toxicity:	Information Not Available
Specific target organ toxicity (single exposure):	Information Not Available	Specific target organ toxicity (repeated exposure):	Information Not Available
Aspiration hazard:	May be harmful		
Carcinogenicity:	Ammonium Sulfide is not listed as carcinogenic by IARC, ACGIH, NTP, or OSHA.		

**XII. ECOLOGICAL INFORMATION**

Toxicity:	Information Not Available	Persistence and Degradation:	Information Not Available
Bioaccumulative potential:	Information Not Available	Mobility in soil:	Information Not Available
PBT and vPvB assessment:	Information Not Available	Other adverse effects:	Information Not Available

**XIII. DISPOSAL CONSIDERATIONS**

Product:	Observe all federal, state, and local environmental regulations in disposing this material.
Contaminated packaging:	Dispose of as unused product.

**XIV. TRANSPORTATION INFORMATION**

DOT (US)	UN Number: 2683	Class: 8 (3, 6.1)	Packing Group: II
Proper Shipping Name:	Ammonium sulphide solution	Marine pollutant: Yes	Poison Inhalation Hazard: No
IMDG	UN Number: 2683	Class: 8 (3, 6.1)	Packing Group: II
Proper Shipping Name:	Ammonium sulphide solution	Marine pollutant: Yes	
IATA	UN Number: 2683	Class: 8 (3, 6.1)	Packing Group: II
Proper Shipping Name:	Ammonium sulphide solution		

**XV. REGULATORY INFORMATION**

OSHA Hazards	Flammable liquid. Corrosive.
US Federal	TSCA: CAS# 12135-76-1 is listed on the TSCA Inventory California Prop. 65: This product does not contain any chemicals known to cause cancer, birth defects, or any other reproductive harm.
SARA 311/312	Fire hazard. Acute Health Hazard.
Regulation	Complies with EC 1272/2008.

**XVI. OTHER INFORMATION**

MSDS Creation Date:	10/22/2010
MSDS Revision #:	5
Revision Date:	07/24/2018
Liability Statement:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Natural Advantage, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.

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