



Safety Data Sheet

1. IDENTIFICATION

Product Identifier: Vet-Paque Barium Sulfate Suspension

Product Code(s): J1350, J1350Q

Synonyms: Mixture.

Recommended Use: For veterinary use only.

Uses Advised Against: Not for human use.

Supplier: Jorgensen Laboratories
1450 Van Buren Avenue, Loveland, CO 80538
Phone: (970) 669-2500 or (800) 525-5614 Fax: (970) 663-5042

Emergency Phone Number: U.S. and Canada: (800) 535-5053 International: (352) 323-3500 (INFOTRAC)

2. HAZARDS IDENTIFICATION

Hazard Classifications: This product is classified as not hazardous under OSHA's Hazard Communication Standard, 29 CFR 1910.1200 (HCS) and the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). However, all chemicals handled and used in the workplace should be treated with caution.

Signal Word: Not applicable.

Hazard Statements: Not applicable.

Pictograms: Not applicable.

Precautionary Statements:

- Prevention:** Not applicable.
- Response:** Not applicable.
- Storage:** Not applicable.
- Disposal:** Not applicable.

Hazards Not Otherwise Classified: Components of this product may cause mutagenic effects and reproductive effects (see Section 11).

Toxicity Statement: Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H ₂ O	Trade secret
Barium Sulfate	Barite	7727-43-7	BaSO ₄	Trade secret
Nonhazardous Ingredients	Trade Secret	N/A	N/A	Trade secret

Trade Secret Statement: The concentration of water and barium sulfate as well as the identifier and concentration of each additional component have been withheld under a trade secret. These components are either nonhazardous or are present at sufficiently low concentrations such that they do not affect the hazard classification of this product.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center.

Skin Contact: Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

General Advice: Poison information centers in each state can provide additional assistance for scheduled poisons. Ensure that medical personnel and those providing first aid are aware of the material(s) involved and take precautions to protect themselves.

Symptoms and Effects: Irritation, abdominal cramping, nausea, vomiting, diarrhea. May cause irritation if swallowed, inhaled, or exposed to the skin or eyes.

**Immediate Medical Care/
Special Treatment:** Call a physician or poison control center if symptoms occur. Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream, as it may scatter and spread fire.

**Hazardous Combustion
Products:** May decompose upon heating to produce corrosive and/or toxic fumes.

Specific Hazards: No information found.

Special Protective Equipment/ Precautions for Firefighters: As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing.

Emergency Procedures: In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

Methods for Containment: Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material, where this is possible. Product should not be released to the environment. Contain and recover liquid when possible.

Methods for Cleanup: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see Section 8). Provide sufficient air exchange and/or exhaust in work areas. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and precautions listed for this product.

Storage: Store between 50°F and 100°F. Do not allow to freeze. Store in a dry, ventilated area. Store in a segregated and approved area away from incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal feed. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Water:	No information found.
Barium Sulfate:	ACGIH (TLV): 10 mg/m ³ OSHA (PEL): 15 mg/m ³
Nonhazardous Ingredients:	No information found.

See Section 3 for more information about "Nonhazardous Ingredients."

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Measures:

Eye/Face Protection: Wear safety glasses with side shields or safety goggles Maintain approved eye wash station and accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective Equipment: Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

Appearance: Opaque, white, viscous liquid.

Odor: Slight, characteristic.

Odor Threshold: No information found.

Formula Weight: Mixture.

pH: No information found.

Melting/Freezing Point: No information found.

Boiling Point/Range: No information found.

Decomposition Temperature: No information found.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Flammability: Not applicable.

Flammability/Explosive Limits: Not applicable.

Solubility: Miscible with water.

Vapor Pressure: No information found.

Vapor Density: No information found.

Specific Gravity: 1.37 (Water = 1)

Evaporation Rate: No information found.

Viscosity: No information found.

Partition Coefficient (n-octanol/water): No information found.

10. STABILITY AND REACTIVITY

Reactivity Data: No information found.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid:	Excess heat, incompatible materials.
Incompatible Materials:	Oxidizers, aluminum, phosphorus, bases, reducing agents.
Hazardous Decomposition Products:	Barium oxides, sulfur oxides, carbon oxides, sodium oxides, potassium oxides, silicon oxides. May decompose upon heating to produce corrosive and/or toxic fumes.
Possibility of Hazardous Reactions:	May react vigorously or violently if exposed to extreme thermal conditions or to the incompatible materials listed above.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:	Inhalation, ingestion, skin contact, eye contact.																		
Acute Effects:	May cause irritation if inhaled or exposed to the skin or eyes.																		
Chronic Effects:	Prolonged or repeated inhalation may cause baritosis. Prolonged or repeated ingestion may cause mutagenic effects, reproductive effects, erosion of tooth enamel, and allergic reaction.																		
Toxicological Data:	<table> <tr> <td>Water:</td> <td>Not applicable.</td> </tr> <tr> <td>Barium Sulfate:</td> <td>May cause baritosis if inhaled.</td> </tr> <tr> <td>Nonhazardous Ingredients:</td> <td> <table> <tr> <td>LD₅₀ Oral, Rat:</td> <td>816,923 mg/kg (estimated)</td> </tr> <tr> <td>LD₅₀ Dermal, Rabbit:</td> <td>120,384 mg/kg (estimated)</td> </tr> <tr> <td>LC₅₀ Inhalation, Rat:</td> <td>3928 mg/L 4 h (estimated)</td> </tr> <tr> <td></td> <td>May cause reproductive effects based on animal data.</td> </tr> <tr> <td></td> <td>May cause mutagenic effect based on animal data.</td> </tr> </table> </td> </tr> <tr> <td></td> <td>See Section 3 for more information about "Nonhazardous Ingredients."</td> </tr> </table>	Water:	Not applicable.	Barium Sulfate:	May cause baritosis if inhaled.	Nonhazardous Ingredients:	<table> <tr> <td>LD₅₀ Oral, Rat:</td> <td>816,923 mg/kg (estimated)</td> </tr> <tr> <td>LD₅₀ Dermal, Rabbit:</td> <td>120,384 mg/kg (estimated)</td> </tr> <tr> <td>LC₅₀ Inhalation, Rat:</td> <td>3928 mg/L 4 h (estimated)</td> </tr> <tr> <td></td> <td>May cause reproductive effects based on animal data.</td> </tr> <tr> <td></td> <td>May cause mutagenic effect based on animal data.</td> </tr> </table>	LD ₅₀ Oral, Rat:	816,923 mg/kg (estimated)	LD ₅₀ Dermal, Rabbit:	120,384 mg/kg (estimated)	LC ₅₀ Inhalation, Rat:	3928 mg/L 4 h (estimated)		May cause reproductive effects based on animal data.		May cause mutagenic effect based on animal data.		See Section 3 for more information about "Nonhazardous Ingredients."
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Symptoms of Exposure:	Irritation, abdominal cramping, nausea, vomiting, diarrhea.																		
Carcinogenic Effects:	No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.																		

12. ECOLOGICAL INFORMATION

Ecotoxicological Data:	<table> <tr> <td>Water:</td> <td>Not applicable.</td> </tr> <tr> <td>Barium Sulfate:</td> <td>EC₅₀ Water Flea (<i>Daphnia magna</i>): 32 mg/L 48 h</td> </tr> <tr> <td>Nonhazardous Ingredients:</td> <td>No information found.</td> </tr> <tr> <td></td> <td>See Section 3 for more information about "Nonhazardous Ingredients."</td> </tr> </table>	Water:	Not applicable.	Barium Sulfate:	EC ₅₀ Water Flea (<i>Daphnia magna</i>): 32 mg/L 48 h	Nonhazardous Ingredients:	No information found.		See Section 3 for more information about "Nonhazardous Ingredients."
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	See Section 3 for more information about "Nonhazardous Ingredients."								
Persistence and Degradability:	Some components of this product are not readily biodegradable and may bioaccumulate.								

Environmental Effects: Not expected to be hazardous to the environment. However, the possibility of an environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL INFORMATION

Disposal Instructions: All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers.

Contaminated Packaging: Because emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

Waste Codes: No information found.

14. TRANSPORT INFORMATION

DOT: Not regulated.

Environmental Hazard Regulations: No information found.

Other Transport Precautions: No information found.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302: No information found.

Sections 311/312:

Hazard Category	List (Yes/No)
Section 311 – Hazardous Chemical	No
Immediate Hazard	No
Delayed Hazard	No
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

Section 313: No information found.

CERCLA Reportable Quantities: No information found.

Canada WHMIS: This SDS is prepared in compliance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Therefore, it complies with the 2015 Workplace Hazardous Materials Information System (WHMIS) as well.

International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	N/A
Canada	Domestic Substances List (DSL)	N/A
Canada	Non-Domestic Substances List (NDSL)	N/A
China	Inventory of Existing Chemical Substances in China (IECSC)	N/A
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	N/A
Europe	European List of Notified Chemical Substances (ELINCS)	N/A
Japan	Inventory of Existing and New Chemical Substances (ENCS)	N/A
Korea	Existing Chemicals List (ECL)	N/A
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	N/A

*A "Yes" indicates that the listed components of this product comply with the inventory requirements administered by the governing country or region.

16. OTHER INFORMATION

Disclaimer:

Jorgensen Laboratories provides the information in this Safety Data Sheet in the belief that it is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this SDS are obtained from literature and do not constitute product specifications. Jorgensen Laboratories makes and gives no representations or warranties with respect to the information contained herein or the product to which it refers, whether express, implied, or statutory, including without limitation, warranties of accuracy, completeness, merchantability, non-infringement, performance, safety, suitability, stability, and fitness for a particular purpose. No warranty against infringement of any patent, copyright or trademark is made or implied. This SDS is intended only as a guide to the appropriate handling of the material by a properly trained person. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. Accordingly, Jorgensen Laboratories assumes no liability whatsoever for the use of or reliance upon this information including results obtained, incidental or consequential damages, or lost profits.

Issue Date:

October 10, 2016

Reason for Revision:

Update of Sections 8, 9, 11, 12, 14, and 15 over 02/06/2015 version.