


## Section 1: Identification

<b>Common Name/Trade Name</b>	FLUNIXIN MEGLUMINE USP	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)
<b>Product Synonym(s)</b>	Banamine; Flunixin N-methylglucanine	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

## Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Acute toxicity, oral Category 3. Acute toxicity, inhalation Category 1, Serious eye damage/eye irritation Category 1. Specific target organ toxicity, single Category 3 respiratory tract irritation	
<b>Signal Word</b>	Danger	
<b>Hazard Statement(s)</b>	H301 H318 H330 H335	Toxic if swallowed Causes serious eye damage Fatal if inhaled May cause respiratory irritation
<b>Pictogram(s)</b>		
<b>Precautionary Statement(s)</b>	P260 P264 P270 P271 P280 P304+P340 P305+P351+P338 P310 P330 P403+P233 P405	Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Rinse mouth. Store in a well ventilated place. Keep container tightly closed. Store locked up.
<b>Hazards Not Otherwise Classified</b>	Hazardous to the aquatic environment, acute hazard Category 2	
<b>Ingredient(s) with Unknown Toxicity</b>	No data available	

## Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	Flunixin Meglumine
<b>Common Name</b>	Flunixin Meglumine
<b>CAS Number</b>	42461-84-7
<b>Impurities and/or Stabilizing Additives</b>	No data available

## Section 4: First Aid Measures

<b>General Advice</b>	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
<b>If Inhaled</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
<b>In Case of Skin Contact</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>In Case of Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
<b>If Swallowed</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Most Important Symptoms and Effects</b>	Irritation of eyes and mucous membranes. May cause temporary blindness and severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Indication of immediate medical attention and special treatment needed: Treatment of no steroidal anti-inflammatory analgesic overdose is symptomatic and supportive and may include the following: DO NOT induce vomiting. Probable mucosal damage may contraindicate use of gastric lavage. Monitor for hypotension, dysrhythmias, respiratory depression, need for endotracheal intubation, and for signs and symptoms of gastrointestinal ulceration or hemorrhage. Evaluate for hypoglycaemia, electrolyte disturbance, and hypoxia. For seizures, attempt initial control with a benzodiazepine; if seizures persist or recur administer phenobarbital. For hypotension, infuse isotonic solution and place patient in Trendelenburg position. If hypotension persists, administer dopamine or norepinephrine. Consider central venous pressure monitoring to guide further therapy. [Meditext Managements]

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials.
<b>Special Hazards Arising From the Substance/Mixture</b>	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks. No unusual fire or explosion hazards noted.
<b>Special PPE and/or Precautions for Firefighters</b>	Wear suitable protective equipment. As with all fires, evacuate personnel to a safe area. Fire fighters should use self-contained breathing equipment and protective clothing. Specific methods: Cool containers exposed to flames with water until well after the fire is out.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.
<b>Methods and Materials Used for Containment</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Wash spill site.
<b>Cleanup Procedures</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Wash spill site.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
<b>Conditions for Safe Storage</b>	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Keep container tightly closed. Keep container in a cool, well-ventilated area. Store at 25 °C, excursion permitted between 15 °C to 30 °C.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	TWA ; 18 micrograms/m3 Biological limit values : No biological exposure limits noted for the ingredient(s).
<b>Appropriate Engineering Controls</b>	Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Avoid any open handling of this material, particularly for grinding, crushing, weighing or other Dust-generating or aerosol-generating procedures. Use a laboratory fume hood, vented enclosure, glovebox, or other effective containment. Handle in accordance with good industrial hygiene and safety practice.
<b>PPE - Eye/Face Protection</b>	Safety glasses with side shields are recommended. Face shields or goggles may be required if Splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.
<b>PPE - Skin Protection</b>	Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic no latex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy. This material is extremely potent. To reduce the risk of contamination of skin and surfaces, wear two pairs of gloves. Remove the outer gloves after handling and clean-up of the material, and remove the inner gloves only after removing other personal protective equipment.
<b>PPE - Body Protection</b>	For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.
<b>PPE - Respiratory Protection</b>	Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Form: Powder Colour: White or Off-white
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	Odorless
<b>Vapor Pressure</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	No data available
<b>Relative Density</b>	No data available
<b>Melting Point/Freezing Point</b>	137°C to 140°C
<b>Solubility</b>	Freely Soluble in Water and in methanol, practically insoluble in acetone.
<b>Initial Boiling Point and Boiling Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available
<b>Partition Coefficient</b>	No data available
<b>Auto-Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	No reactivity hazards known.
<b>Chemical Stability</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Oxidizing agents
<b>Hazardous Decomposition Products</b>	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx. HF.

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	LD50 Rat Oral 120 mg/kg
<b>Acute Toxicity - Inhalation</b>	LC50 Rat Inhalation < 0.52 mg/l/4 h
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	No data available
<b>Skin Corrosion/Irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious Eye Damage/Irritation</b>	Causes serious eye damage.
<b>Respiratory or Skin Sensitization</b>	Due to lack of data the classification is not possible.
<b>Germ Cell Mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity IARC</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Carcinogenicity ACGIH</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Carcinogenicity NTP</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Carcinogenicity OSHA</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met. The therapeutic use of nonsteroidal anti-inflammatory agents should be avoided during the second half of pregnancy because of possible adverse effects on the fetus (such as premature closure of the ductus arteriosus) and delayed labor.
<b>Specific Target Organ Toxicity - Single Exposure</b>	Respiratory tract irritation.
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	Due to lack of data the classification is not possible.
<b>Aspiration Hazard</b>	Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

<b>Toxicity</b>	Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected. Acute Crustacea EC50 Daphnia 25 mg/l, 48 h. Acute Fish LC50 Bluegill ( <i>Lepomis macrochirus</i> ) 46 mg/l, 96h Rainbow Trout 9.2 mg/l, 96 h.
<b>Persistence and Degradability</b>	No data is available on the degradability of this product.
<b>Bio-accumulative Potential</b>	Not available.
<b>Mobility in Soil</b>	Not available.
<b>Other Adverse Effects</b>	Not available.

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	This product, in its present state, when discarded or disposed of, is not a hazardous waste According to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA Criteria for hazardous waste. Dispose of contents/container in accordance with Local/regional/national/international regulations.
<b>Waste Treatment Methods Packaging</b>	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

<b>UN Number</b>	UN2811
<b>UN Proper Shipping Name</b>	Toxic, solid, organic, n.o.s. (Flunixin Meglumine)
<b>Transport Hazard Class(es)</b>	6.1
<b>Packaging Group</b>	I
<b>Environmental Hazards</b>	Environmental hazards: No

## Section 15: Regulatory Information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable. One or more components are not listed on TSCA. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories : Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance : No SARA 311/312 Hazardous Chemical : No Other federal regulations Safe Drinking Water Act (SDWA) : Not regulated. Food and Drug Administration (FDA) : Not regulated. US state regulations : California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. International Inventories Country(s) or region Inventory name On inventory(yes/no)\* Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) No Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China (IECSC) Yes Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory Yes Philippines Philippine Inventory of Chemicals and Chemical Substances No (PICCS) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

## Section 16: Other Information

<b>Additional Information</b>	N/A
<b>Prepared By</b>	Lisa Russell
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### Disclaimer

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