

MATERIAL SAFETY DATA SHEET

Product Name: Ketorolac Tromethamine Injection, USP

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer Name Hospira, Inc.

And Address 275 North Field Drive

Lake Forest, Illinois 60045

USA

Note: Hospira, formerly the Hospital Products Division of Abbott Laboratories, was

created as an independent company in May 2004.

Emergency Telephone

CHEMTREC: 800 424-9300

Hospira, Inc.

224 212-2055

Product Name Ketorolac Tromethamine Injection, USP

Synonyms None

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name Ketorolac Tromethamine

Component	Approximate Percent by Weight	CAS Number	RTECS Number	
Ketorolac Tromethamine	1.5 - 3	74103-07-4	N/A	
Ethyl Alcohol	10	64-17-5	KQ6300000	
Water	87	7732-18-5	ZC0110000	

3. HAZARD INFORMATION

Emergency Overview In clinical use, this material is used for the management of pain. The active

ingredient is a potent drug and is toxic by ingestion. Possible target organs include the gastrointestinal tract, hematopoietic system, nervous system,

reproductive system, liver, kidneys, skin and possibly the eyes.

Occupational Exposure

Potential

Information on the absorption of this compound via ingestion,

inhalation or skin contact is not available. Avoid liquid aerosol generation and

skin contact.

Signs and Symptoms No signs or symptoms from occupational exposure are known. Clinical data

suggest the following: nausea, headaches, dizziness, insomnia, constipation, sleep, gastrointestinal upset, abdominal pain. May cause abnormal kidney function or rash. Direct contact with the eyes could result in eye irritation and

stinging.

Medical Conditions

Aggravated by Exposure

Hypersensitivity to the material and/or similar materials. Pre-existing ailments in the following organs: kidney, liver, hematopoietic system, gastrointestinal

tract.

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4. FIRST AID MEASURES

Eye Contact: Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

Skin Contact: Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

Inhalation: Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic / supportive care as necessary.

Ingestion: Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic / supportive care as necessary.

5. FIRE FIGHTING MEASURES

Flammability: Flash Point: 43°C

Fire & Explosion

Hazard:

None

Extinguishing Media: Use extinguishing media appropriate for primary cause of fire.

Special Fire Fighting

Procedures

No special provisions required beyond normal fire fighting equipment such as flame and chemical resistant clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup and Disposal Absorb liquid with suitable material and clean affected area with soap and

water. Dispose of materials according to the applicable federal, state, or local

regulations.

7. HANDLING AND STORAGE

Handling No special handling required.

Storage No special storage required for hazard control. For product protection store at

controlled room temperature of 15-30°C (59-86°F). Protect from light, retain in

carton until time of use.

Special Precautions Protect from freezing and extreme heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Laposure Guidennes						
		Exposure limits				
Component	OSHA-PEL	ACGIH-TLV	Hospira EEL			
Ketorolac Tromethamine	8 hr TWA: Not	8 hr TWA: Not	8 hr TWA: 40 mcg/m3			
	Established	Established	STEL: Not Established			
Ethyl Alcohol	9 hr TWA 1000 mg/m2	8 hr TWA: 1900 mg/m3	8 hr TWA: Not			
	6 III 1 W A: 1900 IIIg/III3		Established			

Notes: OSHA PEL: US Occupational Safety and Health Administration – Permissible Exposure Limit

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold Limit Value.

EEL: Employee Exposure Limit.
TWA: 8 hour Time Weighted Average.
STEL: 15-minute Short Term Exposure Limit.

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Respiratory Protection Respiratory protection is not needed during normal product use.

Skin Protection If solution contact with unprotected skin is likely, use of impervious gloves is a

prudent practice.

Eye Protection Eye protection is not required during expected product use conditions but may

be warranted should a splash potential exist.

Engineering Controls Engineering controls are not needed during normal product use conditions.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance/Physical Clear, slightly yellow solution.

State

Odor Not Determined. **Boiling Point** 91°C at 760 mm Hg **Freezing Point** Not Determined Vapor Pressure Not Determined Vapor Density (Air=1) Not Determined **Evaporation Rate** Not Applicable **Bulk Density** 0.991 g/mL **Specific Gravity** Not Determined **Solubility** Water, ethyl alcohol

pH 6.9-7.9

10. STABILITY AND REACTIVITY

Chemical Stability Stable under standard use and storage conditions.

Incompatibilities Not Determined

Hazardous Oxides of carbon

Decomposition Products

Not Determined.

Polymerization

Hazardous

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity: Oral

Ingredient(s)	Percent	Test Type	Value	Units	Species
Ketorolac Tromethamine	100	LD50	202-505	mg/kg	Rats
Ethyl Alcohol	100	LD50	5560-13,700	mg/kg	Guinea Pigs, Rats, Mice, Rabbits

LD 50: Dosage that produces 50% mortality.

Product contains between approximately 1.5-3.0% Ketorolac Tromethamine.

Mutagenicity Not Determined

Target Organ Effects In clinical use target organ effects include the gastrointestinal tract,

hematopoietic system, nervous system, reproductive system, liver, kidneys, skin

and possibly the eyes.

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12. ECOLOGICAL INFORMATION:

Aquatic Toxicity Not Available

13. DISPOSAL CONSIDERATIONS:

Waste Disposal Disposal should be performed in accordance with the federal, state or local

regulatory requirements.

Container Handling Dispose of container and unused contents in accordance with federal, state,

and Disposal and local regulations.

14. TRANSPORTATION INFORMATION

DOT Proper Shipping Name: Ethanol Solutions

UN Number: UN 1170 Hazard Class: 3

Packing Group:

Notes: DOT - US Department of Transportation Regulations

15. REGULATORY INFORMATION

TSCA Status

CERCLA Status

Not Regulated
Not Regulated
Not Regulated
Not Regulated
RCRA Status

Not Regulated
Not Regulated
Not Regulated
RCP 65 (Calif.)

Not Regulated

Notes: TSCA Toxic Substance Control Act

CERCLA, US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act

SARA Superfund Amendments and Reauthorization Act RCRA US EPA, Resource Conservation and Recovery Act

Prop 65, California Proposition 65

16. OTHER INFORMATION:

MSDS Coordinator T. Straits MPH, CIH Date Prepared September 15, 2005

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