

MATERIAL SAFETY DATA SHEET

Product Name: Metoprolol Tartrate Injection, USP

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer Name Hospira, Inc.

And Address 275 North Field Drive

Lake Forest, Illinois 60045

USA

Emergency Telephone

CHEMTREC: 800 424-9300

Hospira, Inc.

224 212-2055

Product Name Metoprolol Tartrate Injection, USP

Synonyms None

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name Metoprolol Tartrate

Chemical Formula $C_{19}H_{31}NO_9$

Component	Approximate Percent by Weight	CAS Number	RTECS Number	
Metoprolol Tartrate	0.1	56392-17-7	N/A	
Water	99.9	7732-18-5	ZC0110000	

3. HAZARD INFORMATION

Emergency Overview In clinical use, this material is used to for treatment of hypertension and angina.

Possible target organs include the cardiovascular system, respiratory system,

liver, gastrointestinal system, skin, eyes and fetus.

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: dizziness, insomnia, gastrointestinal upset, breathing difficulty, decreased blood pressure, palpitation, nausea, headaches, rash. Clinical overdose may result in the following: bronchospasm, cardiac arrest,

death.

Medical Conditions Aggravated by Exposure

Data suggest any preexisting ailments in the following organs: cardiovascular

system, respiratory system, kidney, liver, gastrointestinal system.

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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: Non-flammable.

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 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 Protect from light by retaining in carton until ready to use.

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

controlled room temperature of 15-30°C (59-86°F).

Special Precautions Protect from freezing, light and extreme heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

	Exposure limits			
Component	OSHA-PEL	ACGIH-TLV	Hospira EEL	
Metoprolol Tartrate	8 hr TWA: Not	8 hr TWA: Not	8 hr TWA: 150 mcg/m3	
	Established	Established	STEL: Not Established	
Water	8 hr TWA: Not	8 hr TWA: Not	8 hr TWA: Not	
	Established	Established	Established	
	Established	Established	STEL: Not 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, colorless solution

State

Odor Not Applicable

Boiling Point Approximately that of water (100 °C, 212 °F). **Freezing Point** Approximately that of water (0 °C, 32 °F).

Vapor PressureNot ApplicableVapor Density (Air=1)Not ApplicableEvaporation RateNot Applicable

Bulk Density Approximately that of water (1.0) **Specific Gravity** Approximately that of water (1.0)

Solubility Water **pH** 5.0-8.0

10. STABILITY AND REACTIVITY

Chemical Stability Stable under standard use and storage conditions.

Incompatibilities Not Determined

Hazardous Toxic fumes of nitrogen oxides

Decomposition Products

Hazardous Not Determined.

Polymerization

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity - Oral:

Ingredient(s)	Percent	Test Type	Value	Units	Species
			5500		Rats
Metoprolol Tartrate	100	LD50	1500	mg/kg	Mice
_			604		Rabbits

LD50 is the dosage producing 50% mortality.

Product contains approximately 0.1% Metoprolol Tartrate.

Acute Toxicity – Dermal:

Ingredient(s)	Percent	Test Type	Value	Units	Species
Metoprolol Tartrate	100	LD50(sc)	1150	mg/kg	Rats

LD50 (sc) is the value for skin contact

Mutagenicity Not Determined

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

system, and cardiovascular system.

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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 Not Regulated

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
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 Global Occupational Toxicology

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