

**METHOCARBAMOL - methocarbamol tablet**  
**STAT Rx USA LLC**

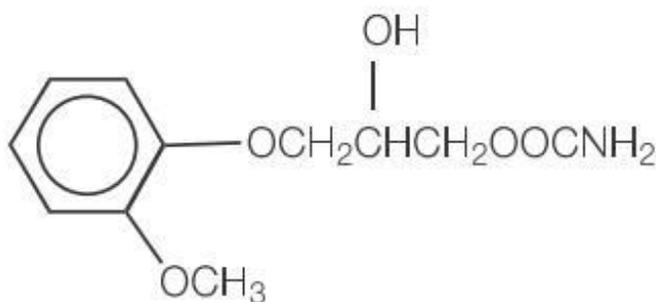
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**Methocarbamol Tablets USP**  
**Revised: September 2008**  
**Rx only**  
**173752**

**Rx only**

**DESCRIPTION**

Methocarbamol, a carbamate derivative of guaifenesin, is a central nervous system (CNS) depressant with sedative and musculoskeletal relaxant properties.

The chemical name of methocarbamol is a 3-(2 methoxyphenoxy)-1,2-propanediol 1-carbamate. The structural formula is shown below:



**Structural formula of Methocarbamol**

$C_{11}H_{15}NO_5$       M.W. 241.24

Methocarbamol is a white powder, sparingly soluble in water and chloroform, soluble in alcohol (only with heating) and propylene glycol, and insoluble in benzene and *n*-hexane.

Methocarbamol Tablets USP 500 mg and 750 mg, contain the following inactive ingredients: colloidal silicon dioxide, magnesium stearate, pregelatinized starch, sodium starch glycolate and stearic acid.

**Clinical Pharmacology**

The mechanism of action of methocarbamol in humans has not been established, but may be due to general central nervous system (CNS) depression. It has no direct action on the contractile mechanism of striated muscle, the motor end plate or the nerve fiber.

**Pharmacokinetics**

In healthy volunteers, the plasma clearance of methocarbamol ranges between 0.20 and 0.80 L/h/kg, the mean plasma elimination half-life ranges between 1 and 2 hours, and the plasma protein binding ranges between 46% and 50%.

Methocarbamol is metabolized via dealkylation and hydroxylation. Conjugation of methocarbamol also is likely. Essentially all methocarbamol metabolites are eliminated in the urine. Small amounts of unchanged methocarbamol also are excreted in the urine.

## Special populations

### *Elderly*

The mean ( $\pm$  SD) elimination half-life of methocarbamol in elderly healthy volunteers (mean ( $\pm$  SD) age, 69 ( $\pm$  4) years) was slightly prolonged compared to a younger (mean ( $\pm$  SD) age, 53.3 ( $\pm$  8.8) years), healthy population (1.5 ( $\pm$  0.4) hours versus 1.1 ( $\pm$  0.27) hours, respectively). The fraction of bound methocarbamol was slightly decreased in the elderly versus younger volunteers (41 to 43% versus 46 to 50%, respectively).

### *Renally impaired*

The clearance of methocarbamol in 8 renally-impaired patients on maintenance hemodialysis was reduced about 40% compared to 17 normal subjects, although the mean ( $\pm$  SD) elimination half-life in these two groups was similar: 1.2 ( $\pm$  0.6) versus 1.1 ( $\pm$  0.3) hours, respectively.

### *Hepatically impaired*

In 8 patients with cirrhosis secondary to alcohol abuse, the mean total clearance of methocarbamol was reduced approximately 70% compared to that obtained in 8 age- and weight-matched normal subjects. The mean ( $\pm$  SD) elimination half-life in the cirrhotic patients and the normal subjects was 3.38 ( $\pm$  1.62) hours and 1.11 ( $\pm$  0.27) hours, respectively. The percent of methocarbamol bound to plasma proteins was decreased to approximately 40 to 45% compared to 46 to 50% in the normal subjects.

## INDICATIONS AND USAGE

Methocarbamol tablets are indicated as an adjunct to rest, physical therapy, and other measures for the relief of discomfort associated with acute, painful musculoskeletal conditions. The mode of action of methocarbamol has not been clearly identified, but may be related to its sedative properties. Methocarbamol does not directly relax tense skeletal muscles in man.

## CONTRAINDICATIONS

Methocarbamol tablets are contraindicated in patients hypersensitive to methocarbamol or to any of the tablet components.

## WARNINGS

Since methocarbamol may possess a general CNS depressant effect, patients receiving methocarbamol should be cautioned about combined effects with alcohol and other CNS depressants.

Safe use of methocarbamol has not been established with regard to possible adverse effects upon fetal development. There have been reports of fetal and congenital abnormalities following in utero exposure to methocarbamol. Therefore, methocarbamol should not be used in women who are or may become pregnant and particularly during early pregnancy unless in the judgment of the physician the potential benefits outweigh the possible hazards (see **PRECAUTIONS, Pregnancy**).

### **Use In Activities Requiring Mental Alertness**

Methocarbamol may impair mental and/or physical abilities required for performance of hazardous tasks, such as operating machinery or driving a motor vehicle. Patients should be cautioned about operating machinery, including automobiles, until they are reasonably certain that methocarbamol therapy does not adversely affect their ability to engage in such activities.

## PRECAUTIONS

## **Information for Patients**

Patients should be cautioned that methocarbamol may cause drowsiness or dizziness, which may impair their ability to operate motor vehicles or machinery.

Because methocarbamol may possess a general CNS-depressant effect, patients should be cautioned about combined effects with alcohol and other CNS depressants.

## **Drug Interactions**

See **WARNINGS** and **PRECAUTIONS** for interaction with CNS drugs and alcohol.

Methocarbamol may inhibit the effect of pyridostigmine bromide. Therefore, methocarbamol should be used with caution in patients with myasthenia gravis receiving anticholinesterase agents.

## **Drug/Laboratory Test Interactions**

Methocarbamol may cause a color interference in certain screening tests for 5-hydroxyindoleacetic acid (5-HIAA) using nitrosonaphthol reagent and in screening tests for urinary vanillylmandelic acid (VMA) using the Gitlow method.

## **Carcinogenesis, Mutagenesis, Impairment of Fertility**

Long-term studies to evaluate the carcinogenic potential of methocarbamol have not been performed. No studies have been conducted to assess the effect of methocarbamol on mutagenesis or its potential to impair fertility.

## **Pregnancy**

Teratogenic Effects — Pregnancy Category C

Animal reproduction studies have not been conducted with methocarbamol. It is also not known whether methocarbamol can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Methocarbamol should be given to a pregnant woman only if clearly needed.

Safe use of methocarbamol has not been established with regard to possible adverse effects upon fetal development. There have been reports of fetal and congenital abnormalities following in utero exposure to methocarbamol. Therefore, methocarbamol should not be used in women who are or may become pregnant and particularly during early pregnancy unless in the judgment of the physician the potential benefits outweigh the possible hazards (see **WARNINGS**).

## **Nursing Mothers**

Methocarbamol and/or its metabolites are excreted in the milk of dogs; however, it is not known whether methocarbamol or its metabolites are excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when methocarbamol is administered to a nursing woman.

## **Pediatric Use**

Safety and effectiveness of methocarbamol in pediatric patients below the age of 16 have not been established.

## **ADVERSE REACTIONS**

Adverse reactions reported coincident with the administration of methocarbamol include:

*Body as a whole:* Anaphylactic reaction, angioneurotic edema, fever, headache

*Cardiovascular system:* Bradycardia, flushing, hypotension, syncope, thrombophlebitis

*Digestive system:* Dyspepsia, jaundice (including cholestatic jaundice), nausea and vomiting

*Hemic and lymphatic system:* Leukopenia

*Immune system:* Hypersensitivity reactions

*Nervous system:* Amnesia, confusion, diplopia, dizziness or lightheadedness, drowsiness, insomnia, mild muscular incoordination, nystagmus, sedation, seizures (including grand mal), vertigo

*Skin and special senses:* Blurred vision, conjunctivitis, nasal congestion, metallic taste, pruritus, rash, urticaria

## **OVERDOSAGE**

Limited information is available on the acute toxicity of methocarbamol. Overdose of methocarbamol is frequently in conjunction with alcohol or other CNS depressants and includes the following symptoms: nausea, drowsiness, blurred vision, hypotension, seizures, and coma.

In post-marketing experience, deaths have been reported with an overdose of methocarbamol alone or in the presence of other CNS depressants, alcohol or psychotropic drugs.

## **Treatment**

Management of overdose includes symptomatic and supportive treatment. Supportive measures include maintenance of an adequate airway, monitoring urinary output and vital signs, and administration of intravenous fluids if necessary. The usefulness of hemodialysis in managing overdose is unknown.

## **DOSAGE AND ADMINISTRATION**

500 mg - Adults:

initial dosage, 3 tablets q.i.d.; maintenance dosage, 2 tablets q.i.d.

750 mg - Adults:

initial dosage, 2 tablets q.i.d.; maintenance dosage 1 tablet q.4h or 2 tablets t.i.d.

Six grams a day are recommended for the first 48 to 72 hours of treatment. (For severe conditions 8 grams a day may be administered). Thereafter, the dosage can usually be reduced to approximately 4 grams a day.

## **HOW SUPPLIED**

Methocarbamol Tablets USP 500 mg are scored, round, white tablets imprinted **DAN DAN** and **5381** supplied in bottles of 30, 40, 60, 90, 120 and 180.

Methocarbamol Tablets USP 750 mg are scored, capsule shaped, white tablets imprinted **DAN DAN** and **5382** supplied in bottles of 30, 40, 60, 90, 120 and 180.

Dispense in a tight container with a child-resistant closure.

Store at 20°-25°C (68°-77°F). [See USP controlled room temperature.]

Manufactured by:

**Watson Pharma Private Ltd.**

Verna, Salcette Goa 403 722 INDIA

Distributed By:

**Watson Pharma Inc.**

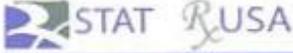
Corona, CA 92880 USA

Revised : September 2008

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**Principal Display Panel - 500mg**

**Methocarbamol 500mg tablet (s)**

Packaged and Distributed By:  Gainesville, GA 30501

**Methocarbamol**  
**500mg** **60 Tabs**

Generic For: **Robaxin**

NDC 42549-652-60 Prod# 652-60  
Lot# 02DE11113  
Each Tablet Contains: Methocarbamol USP 500mg

Dosage: See package insert  
Store between 59-86 degrees F

Dist By: Watson Pharma, Inc.  
Corona, CA 92880 NDC 0591-5381-05  
Mfg Lot: 673180  
Discard After: 05/13 BW 12/2/2011 SAMPLE

**RX ONLY-KEEP OUT OF REACH OF CHILDREN**

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**Principal Display Panel - 750mg**

**Methocarbamol 750mg tablet (s)**

Packaged and Distributed By:  Gainesville, GA 30501

**Methocarbamol**  
**750mg** **40 Tabs**

Generic For: **Robaxin**

NDC 42549-521-40 Prod# 521-40  
Lot# SAMPLE  
Each Tablet Contains: Methocarbamol USP 750mg

Dosage: See package insert  
Store between 59-86 degrees F

Dist By: Watson Pharma, Inc.  
Corona, CA 92880 NDC 0591-5382-05  
Mfg Lot:  
Discard After: 05/14 BW 11/8/2011 SAMPLE

**RX ONLY-KEEP OUT OF REACH OF CHILDREN**

69D59

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# METHOCARBAMOL

methocarbamol tablet

## Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42549-652(NDC:0591-5381)
Route of Administration	ORAL		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
METHOCARBAMOL (UNII: 125OD7737X) (METHOCARBAMOL - UNII:125OD7737X)	METHOCARBAMOL	500 mg

## Inactive Ingredients

Ingredient Name	Strength
COLLOIDAL SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
STARCH, CORN (UNII: O8232NY3SJ)	

## Product Characteristics

Color	WHITE	Score	2 pieces
Shape	ROUND	Size	13mm
Flavor		Imprint Code	DAN;DAN;5381
Contains			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42549-652-12	120 in 1 BOTTLE		
2	NDC:42549-652-30	30 in 1 BOTTLE		
3	NDC:42549-652-40	40 in 1 BOTTLE		
4	NDC:42549-652-60	60 in 1 BOTTLE		
5	NDC:42549-652-81	180 in 1 BOTTLE		
6	NDC:42549-652-90	90 in 1 BOTTLE		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
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ANDA	ANDA084277	11/01/1987	
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## METHOCARBAMOL

methocarbamol tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:42549-521(NDC:0591-5382)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
METHOCARBAMOL (UNII: 125OD7737X) (METHOCARBAMOL - UNII:125OD7737X)	METHOCARBAMOL	750 mg

### Inactive Ingredients

Ingredient Name	Strength
COLLOIDAL SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
STARCH, CORN (UNII: O8232NY3SJ)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
STEARIC ACID (UNII: 4ELV7Z65AP)	

### Product Characteristics

<b>Color</b>	WHITE	<b>Score</b>	2 pieces
<b>Shape</b>	CAPSULE	<b>Size</b>	18mm
<b>Flavor</b>		<b>Imprint Code</b>	DAN;DAN;5382
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42549-521-12	120 in 1 BOTTLE		
2	NDC:42549-521-30	30 in 1 BOTTLE		
3	NDC:42549-521-40	40 in 1 BOTTLE		
4	NDC:42549-521-60	60 in 1 BOTTLE		
5	NDC:42549-521-81	180 in 1 BOTTLE		
6	NDC:42549-521-90	90 in 1 BOTTLE		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA084276	11/01/1987	

**Labeler** - STAT Rx USA LLC (786036330)

**Registrant** - PSS World Medical Inc. (101822682)

**Establishment**

<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
STAT Rx USA LLC		786036330	RELABEL, REPACK

Revised: 2/2012

STAT Rx USA LLC