TYLENOL WITH CODEINE- acetaminophen and codeine phosphate tablet Janssen Pharmaceuticals, Inc.

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TYLENOL® with Codeine CIII

(acetaminophen and codeine phosphate) tablets

#### **HEPATOTOXICITY**

Acetaminophen has been associated with cases of acute liver failure, at times resulting in liver transplant and death. Most of the cases of liver injury are associated with the use of acetaminophen at doses that exceed 4,000 milligrams per day, and often involve more than one acetaminophen-containing product (see WARNINGS).

WARNING: Death Related to Ultra-Rapid Metabolism of Codeine to Morphine

Respiratory depression and death have occurred in children who received codeine following tonsillectomy and/or adenoidectomy and had evidence of being ultra-rapid metabolizers of codeine due to a CYP2D6 polymorphism.

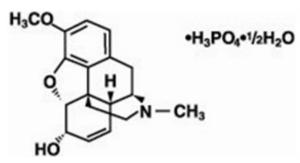
## **DESCRIPTION**

TYLENOL® with Codeine is supplied in tablet form for oral administration.

Acetaminophen, 4'-hydroxyacetanilide, a slightly bitter, white, odorless, crystalline powder, is a non-opiate, non-salicylate analgesic and antipyretic. It has the following structural formula:

C<sub>8</sub> H<sub>9</sub> NO<sub>2</sub> M.W. 151.16

Codeine phosphate, 7,8-didehydro-4,  $5\alpha$ -epoxy-3-methoxy-17-methylmorphinan- $6\alpha$ -ol phosphate (1:1) (salt) hemihydrate, a white crystalline powder, is a narcotic analgesic and antitussive. It has the following structural formula:



 $C_{18}H_{21}NO_3 \cdot H_3PO_4 \cdot 1/2 H_2O$  M.W. 406.37

Tylenol with Codeine No. 3 tablets contain:

Acetaminophen 300 mg Codeine Phosphate 30 mg

(Warning: May be habit forming)

Tylenol with Codeine No. 4 tablets contain:

Acetaminophen 300 mg Codeine Phosphate 60 mg

(Warning: May be habit forming)

In addition, each tablet contains the following inactive ingredients:

TYLENOL® with Codeine No. 3 contains powdered cellulose, magnesium stearate, sodium metabisulfite<sup>1</sup>, pregelatinized starch (corn), and modified starch (corn).

TYLENOL® with Codeine No. 4 contains powdered cellulose, magnesium stearate, sodium metabisulfite¹, pregelatinized starch (corn), and corn starch.

## CLINICAL PHARMACOLOGY

This product combines the analgesic effects of a centrally acting analgesic, codeine, with a peripherally acting analgesic, acetaminophen.

## **Pharmacokinetics**

The behavior of the individual components is described below.

## Codeine

Codeine is rapidly absorbed from the gastrointestinal tract. It is rapidly distributed from the intravascular spaces to the various body tissues, with preferential uptake by parenchymatous organs such as the liver, spleen, and kidney. Codeine crosses the blood-brain barrier and is found in fetal tissue and breast milk. The plasma concentration does not correlate with brain concentration or relief of pain; however, codeine is not bound to plasma proteins and does not accumulate in body tissues.

The plasma half-life is about 2.9 hours. The elimination of codeine is primarily via the kidneys, and about 90% of an oral dose is excreted by the kidneys within 24 hours of dosing. The urinary secretion products consist of free and glucuronide conjugated codeine (about 70%), free and conjugated norcodeine (about 10%), free and conjugated morphine (about 10%), normorphine (4%), and hydrocodone (1%). The remainder of the dose is excreted in the feces.

<sup>1</sup> See WARNINGS

At therapeutic doses, the analgesic effect reaches a peak within 2 hours and persists between 4 and 6 hours.

## Acetaminophen

Acetaminophen is rapidly absorbed from the gastrointestinal tract and is distributed throughout most body tissues. The plasma half-life is 1.25 to 3 hours, but may be increased by liver damage and following overdosage. Elimination of acetaminophen is principally by liver metabolism (conjugation) and subsequent renal excretion of metabolites. Approximately 85% of an oral dose appears in the urine within 24 hours of administration, most as the glucuronide conjugate, with small amounts of other conjugates and unchanged drug.

## INDICATIONS AND USAGE

TYLENOL® with Codeine (acetaminophen and codeine phosphate) Tablets are indicated for the relief of mild to moderately severe pain.

## **CONTRAINDICATIONS**

Codeine-containing products are contraindicated for postoperative pain management in children who have undergone tonsillectomy and/or adenoidectomy.

This product should not be administered to patients who have previously exhibited hypersensitivity to codeine or acetaminophen.

## **WARNINGS**

## Hepatotoxicity

Acetaminophen has been associated with cases of acute liver failure, at times resulting in liver transplant and death. Most of the cases of liver injury are associated with the use of acetaminophen at doses that exceed 4,000 milligrams per day, and often involve more than one acetaminophen-containing product. The excessive intake of acetaminophen may be intentional to cause self-harm or unintentional as patients attempt to obtain more pain relief or unknowingly take other acetaminophen-containing products (see Boxed Warning).

The risk of acute liver failure is higher in individuals with underlying liver disease and in individuals who ingest alcohol while taking acetaminophen.

Instruct patients to look for acetaminophen or APAP on package labels and not to use more than one product that contains acetaminophen. Instruct patients to seek medical attention immediately upon ingestion of more than 4,000 milligrams of acetaminophen per day, even if they feel well.

## Death Related to Ultra-Rapid Metabolism of Codeine to Morphine

Respiratory depression and death have occurred in children who received codeine in the postoperative period following tonsillectomy and/or adenoidectomy and had evidence of being ultra-rapid metabolizers of codeine (i.e., multiple copies of the gene for cytochrome P450 isoenzyme 2D6 or high morphine concentrations). Deaths have also occurred in nursing infants who were exposed to high levels of morphine in breast milk because their mothers were ultra-rapid metabolizers of codeine [see Precautions, Nursing Mothers].

Some individuals may be ultra-rapid metabolizers because of a specific CYP2D6 genotype (gene duplications denoted as \*1/\*1×N or \*1/\*2×N). The prevalence of this CYP2D6 phenotype varies widely and has been estimated at 0.5 to 1% in Chinese and Japanese, 0.5 to 1% in Hispanics, 1 to 10% in Caucasians, 3% in African Americans, and 16 to 28% in North Africans, Ethiopians, and Arabs. Data are

not available for other ethnic groups. These individuals convert codeine into its active metabolite, morphine, more rapidly and completely than other people. This rapid conversion results in higher than expected serum morphine levels. Even at labeled dosage regimens, individuals who are ultra-rapid metabolizers may have life-threatening or fatal respiratory depression or experience signs of overdose (such as extreme sleepiness, confusion, or shallow breathing) [see Overdosage].

Children with obstructive sleep apnea who are treated with codeine for post-tonsillectomy and/or adenoidectomy pain may be particularly sensitive to the respiratory depressant effects of codeine that has been rapidly metabolized to morphine. Codeine-containing products are contraindicated for post-operative pain management in all pediatric patients undergoing tonsillectomy and/or adenoidectomy [see Contraindications].

When prescribing codeine-containing products, healthcare providers should choose the lowest effective dose for the shortest period of time and inform patients and caregivers about these risks and the signs of morphine overdose [see Overdosage].

## Hypers ensitivity/Anaphylaxis

There have been post-marketing reports of hypersensitivity and anaphylaxis associated with the use of acetaminophen. Clinical signs included swelling of the face, mouth, and throat, respiratory distress, urticaria, rash, pruritus, and vomiting. There were infrequent reports of life-threatening anaphylaxis requiring emergency medical attention. Instruct patients to discontinue TYLENOL® with Codeine immediately and seek medical care if they experience these symptoms. Do not prescribe TYLENOL® with Codeine for patients with acetaminophen allergy.

## **Head Injuries**

In the presence of head injury or other intracranial lesions, the respiratory-depressant effects of codeine and other narcotics may be markedly enhanced, as well as their capacity for elevating cerebrospinal fluid pressure. Narcotics also produce other CNS-depressant effects, such as drowsiness, that may further obscure the clinical course of the patients with head injuries.

## **Acute Abdominal Conditions**

Codeine or other narcotics may obscure signs on which to judge the diagnosis or clinical course of patients with acute abdominal conditions.

#### Abuse Potential

Codeine is habit forming and potentially abusable. Consequently, the extended use of this product is not recommended.

## **Sulfite Sensitivity**

TYLENOL® with Codeine (acetaminophen and codeine phosphate) Tablets contain sodium metabisulfite, a sulfite that may cause allergic-type reactions including anaphylactic symptoms and lifethreatening or less severe asthmatic episodes in certain susceptible people. The overall prevalence of sulfite sensitivity in the general population is unknown and probably low. Sulfite sensitivity is seen more frequently in asthmatic than in nonasthmatic people.

## **PRECAUTIONS**

#### General

TYLENOL<sup>®</sup> with Codeine (acetaminophen and codeine phosphate) Tablets should be prescribed with caution in certain special-risk patients, such as the elderly or debilitated, and those with severe impairment of renal or hepatic function, head injuries, elevated intracranial pressure, acute abdominal conditions, hypothyroidism, urethral stricture, Addison's disease, or prostatic hypertrophy.

## **Information for Patients/Caregivers**

- Do not take TYLENOL® with Codeine if you are allergic to any of its ingredients.
- If you develop signs of allergy such as a rash or difficulty breathing, stop taking TYLENOL® with Codeine and contact your healthcare provider immediately.
- Do not take more than 4,000 milligrams of acetaminophen per day. Call your healthcare provider if you took more than the recommended dose.
- Codeine may impair the mental and/or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery. Avoid such tasks while taking this product.
- Alcohol and other CNS depressants may produce an additive CNS depression when taken with this
  combination product. Avoid drinking alcohol or taking other CNS depressants when you are taking
  Tylenol with Codeine.
- Codeine may be habit forming. Take this drug only for as long as it is prescribed, in the amounts prescribed, and no more frequently than prescribed.
- Advise patients that some people have a genetic variation that results in codeine changing into morphine more rapidly and completely than other people. Most people are unaware of whether they are an ultra-rapid codeine metabolizer or not. These higher-than-normal levels of morphine in the blood may lead to life-threatening or fatal respiratory depression or signs of overdose such as extreme sleepiness, confusion, or shallow breathing. Children with this genetic variation who were prescribed codeine after tonsillectomy and/or adenoidectomy for obstructive sleep apnea may be at greatest risk based on reports of several deaths in this population due to respiratory depression. Codeine-containing products are contraindicated in all children who undergo tonsillectomy and/or adenoidectomy. Advise caregivers of children receiving codeine-containing products for other reasons to monitor for signs of respiratory depression.
- Nursing mothers taking codeine can also have higher morphine levels in their breast milk if they are ultra-rapid metabolizers. These higher levels of morphine in breast milk may lead to life-threatening or fatal side effects in nursing babies. If you are a nursing mother, watch for signs of morphine toxicity in your infant, including increased sleepiness (more than usual), difficulty breastfeeding, breathing difficulties, or limpness. Talk to your baby's doctor immediately if you notice these signs. If you cannot reach the doctor right away, take your baby to an emergency room or call 911 (or local emergency services).

## Laboratory Tests

In patients with severe hepatic or renal disease, effects of therapy should be monitored with serial liver and/or renal function tests.

## **Drug Interactions**

This drug may enhance the effects of other narcotic analgesics, alcohol, general anesthetics, tranquilizers such as chlordiazepoxide, sedative-hypnotics, or other CNS depressants, causing increased CNS depression.

## **Drug/Laboratory Test Interactions**

Codeine may increase serum amylase levels.

Acetaminophen may produce false-positive test results for urinary 5-hydroxyindoleacetic acid.

## Carcinogenesis, Mutagenesis, Impairment of Fertility

No adequate studies have been conducted in animals to determine whether acetaminophen and codeine have a potential for carcinogenesis or mutagenesis. No adequate studies have been conducted in animals to determine whether acetaminophen has a potential for impairment of fertility.

Acetaminophen and codeine have been found to have no mutagenic potential using the Ames Salmonella-

Microsomal Activation test, the Basc test on Drosophila germ cells, and the Micronucleus test on mouse bone marrow.

## **Pregnancy**

Teratogenic Effects

Pregnancy Category C

#### Codeine

A study in rats and rabbits reported no teratogenic effect of codeine administered during the period of organogenesis in doses ranging from 5 to 120 mg/kg. In the rat, doses at the 120 mg/kg level, in the toxic range for the adult animal, were associated with an increase in embryo resorption at the time of implantation. In another study a single 100 mg/kg dose of codeine administered to pregnant mice reportedly resulted in delayed ossification in the offspring.

There are no adequate and well-controlled studies in pregnant women. TYLENOL® with Codeine (acetaminophen and codeine phosphate) Tablets should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nonteratogenic Effects

Dependence has been reported in newborns whose mothers took opiates regularly during pregnancy. Withdrawal signs include irritability, excessive crying, tremors, hyperreflexia, fever, vomiting, and diarrhea. These signs usually appear during the first few days of life.

## **Labor and Delivery**

Narcotic analgesics cross the placental barrier. The closer to delivery and the larger the dose used, the greater the possibility of respiratory depression in the newborn. Narcotic analgesics should be avoided during labor if delivery of a premature infant is anticipated. If the mother has received narcotic analgesics during labor, newborn infants should be observed closely for signs of respiratory depression. Resuscitation may be required (see OVERDOSAGE). The effect of codeine, if any, on the later growth, development, and functional maturation of the child is unknown.

## **Nursing Mothers**

Acetaminophen is excreted in breast milk in small amounts, but the significance of its effect on nursing infants is not known. Because of the potential for serious adverse reactions in nursing infants from acetaminophen, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother.

Codeine is secreted into human milk. In women with normal codeine metabolism (normal CYP2D6 activity), the amount of codeine secreted into human milk is low and dose-dependent. Despite the common use of codeine products to manage postpartum pain, reports of adverse events in infants are rare. However, some women are ultra-rapid metabolizers of codeine. These women achieve higher-than-expected serum levels of codeine's active metabolite, morphine, leading to higher-than-expected levels of morphine in breast milk and potentially dangerously high serum morphine levels in their breastfed infants. Therefore, maternal use of codeine can potentially lead to serious adverse reactions, including death, in nursing infants.

The risk of infant exposure to codeine and morphine through breast milk should be weighed against the benefits of breastfeeding for both the mother and baby. Caution should be exercised when codeine is administered to a nursing woman. If a codeine-containing product is selected, the lowest dose should be prescribed for the shortest period of time to achieve the desired clinical effect. Mothers using codeine should be informed about when to seek immediate medical care and how to identify the signs and

symptoms of neonatal toxicity, such as drowsiness or sedation, difficulty breastfeeding, breathing difficulties, and decreased tone, in their baby. Nursing mothers who are ultra-rapid metabolizers may also experience overdose symptoms such as extreme sleepiness, confusion, or shallow breathing. Prescribers should closely monitor mother-infant pairs and notify treating pediatricians about the use of codeine during breastfeeding (See Warnings- Death Related to Ultra-Rapid Metabolism of Codeine to Morphine).

#### Pediatric Use

Respiratory depression and death have occurred in children with obstructive sleep apnea who received codeine in the post-operative period following tonsillectomy and/or adenoidectomy and had evidence of being ultra-rapid metabolizers of codeine (i.e., multiple copies of the gene for cytochrome P450 isoenzyme CYP2D6 or high morphine concentrations). These children may be particularly sensitive to the respiratory depressant effects of codeine that has been rapidly metabolized to morphine. Codeine-containing products are contraindicated for post-operative pain management in all pediatric patients undergoing tonsillectomy and/or adenoidectomy [see Contraindications and Warnings].

## ADVERSE REACTIONS

The most frequently observed adverse reactions include drowsiness, lightheadedness, dizziness, sedation, shortness of breath, nausea and vomiting. These effects seem to be more prominent in ambulatory than in nonambulatory patients, and some of these adverse reactions may be alleviated if the patient lies down.

Other adverse reactions include allergic reactions, euphoria, dysphoria, constipation, abdominal pain, pruritus, rash, thrombocytopenia, and agranulocytosis.

At higher doses, codeine has most of the disadvantages of morphine including respiratory depression.

## **DRUG ABUSE AND DEPENDENCE**

#### **Controlled Substance**

TYLENOL® with Codeine (acetaminophen and codeine phosphate) Tablets are classified as a Schedule III controlled substance.

## **Abuse and Dependence**

Codeine can produce drug dependence of the morphine type and, therefore, has the potential for being abused. Psychological dependence, physical dependence, and tolerance may develop upon repeated administration and it should be prescribed and administered with the same degree of caution appropriate to the use of other oral narcotic medications.

### **OVERDOSAGE**

Following an acute overdosage, toxicity may result from codeine or acetaminophen.

## **Signs and Symptoms**

Toxicity from *codeine* poisoning includes the opioid triad of pinpoint pupils, depression of respiration, and loss of consciousness. Convulsions may occur.

In *acetaminophen* overdosage, dose-dependent, potentially fatal hepatic necrosis is the most serious adverse effect. Renal tubular necrosis, hypoglycemic coma, and coagulation defects may also occur.

Early symptoms following a potentially hepatotoxic overdose may include nausea, vomiting, diaphoresis, and general malaise. Clinical and laboratory evidence of hepatic toxicity may not be

apparent until 48 to 72 hours post-ingestion.

## **Treatment**

A single or multiple drug overdose with acetaminophen and codeine is a potentially lethal polydrug overdose and consultation with a regional poison control center is recommended.

Immediate treatment includes support of cardiorespiratory function and measures to reduce drug absorption.

Oxygen, intravenous fluids, vasopressors, and other supportive measures should be employed as indicated. Assisted or controlled ventilation should also be considered. For respiratory depression due to overdosage or unusual sensitivity to codeine, parenteral naloxone is a specific and effective antagonist.

Gastric decontamination with activated charcoal should be administered just prior to N-acetylcysteine (NAC) to decrease systemic absorption if acetaminophen ingestion is known or suspected to have occurred within a few hours of presentation. Serum acetaminophen levels should be obtained immediately if the patient presents 4 or more hours after ingestion to assess potential risk of hepatotoxicity; acetaminophen levels drawn less than 4 hours post-ingestion may be misleading. To obtain the best possible outcome, NAC should be administered as soon as possible where impending or evolving liver injury is suspected. Intravenous NAC may be administered when circumstances preclude oral administration.

Vigorous supportive therapy is required in severe intoxication. Procedures to limit the continuing absorption of the drug must be readily performed since the hepatic injury is dose-dependent and occurs early in the course of intoxication.

#### DOSAGE AND ADMINISTRATION

Dosage should be adjusted according to severity of pain and response of the patient.

The usual adult dosage is:

	Single Doses (Range)	Maximum 24-Hour Dose
Codeine Phosphate	15 mg to 60 mg	360 mg
Acetaminophen	300 mg to 1,000 mg	4,000 mg

Doses may be repeated up to every 4 hours.

The prescriber must determine the number of tablets per dose, and the maximum number of tablets per 24 hours, based upon the above dosage guidance. This information should be conveyed in the prescription.

It should be kept in mind, however, that tolerance to codeine can develop with continued use and that the incidence of untoward effects is dose related. Adult doses of codeine higher than 60 mg fail to give commensurate relief of pain but merely prolong analgesia and are associated with an appreciably increased incidence of undesirable side effects. Equivalently high doses in children would have similar effects.

#### **HOW SUPPLIED**

TYLENOL® with Codeine (acetaminophen and codeine phosphate) No. 3 Tablets contain acetaminophen 300 mg and codeine phosphate 30 mg. The tablets are white, round, flat-faced, bevelededged tablet, imprinted "McNEIL" on one side and "TYLENOL CODEINE" and "3" on the other side.

TYLENOL® with Codeine (acetaminophen and codeine phosphate) No. 4 Tablets contain

acetaminophen 300 mg and codeine phosphate 60 mg. The tablets are white, round, flat-faced, beveled-edged tablet, imprinted "McNEIL" on one side and "TYLENOL CODEINE" and "4" on the other side.

 $TYLENOL^{\circledR}$  with Codeine Tablets are supplied as follows:

TYLENOL® with Codeine No. 3 bottle of 100 tablets – NDC 50458-513-60

TYLENOL® with Codeine No. 3 bottle of 1000 tablets – NDC 50458-513-80

TYLENOL® with Codeine No. 4 bottle of 100 tablets – NDC 50458-515-60

TYLENOL® with Codeine No. 4 bottle of 500 tablets – NDC 50458-515-70

Store TYLENOL® with Codeine Tablets at 20° to 25°C (68° to 77°F). (See USP Controlled Room Temperature.)

Dispense in tight, light-resistant container as defined in the official compendium.

Manufactured by: Janssen Ortho, LLC Gurabo, Puerto Rico 00778

Manufactured for: Janssen Pharmaceuticals, Inc. Titusville, NJ 08560

10186602

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#### PRINCIPAL DISPLAY PANEL - 100 Tablet Bottle Label

NDC 50458-513-60

CIII

100 tablets

Tylenol®
with codeine
ACETAMINOPHEN AND
CODEINE PHOSPHATE
TABLETS No.3

Each tablet contains: codeine phosphate 30 mg acetaminophen 300 mg

Rx only.

Janssen



## PRINCIPAL DISPLAY PANEL - 100 Tablet Bottle Label

NDC 50458-515-60

**CIII** 

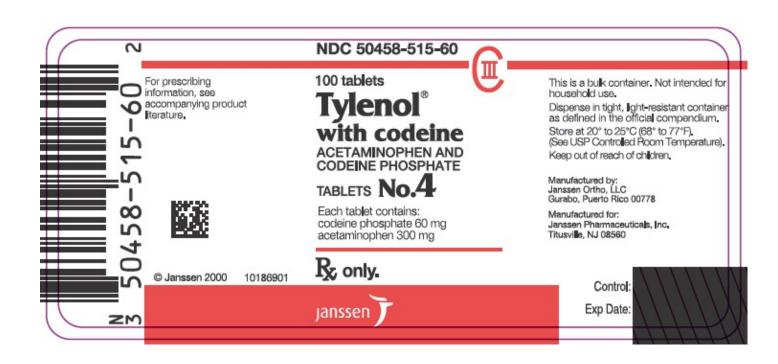
100 tablets

Tylenol®
with codeine
ACETAMINOPHEN AND
CODEINE PHOSPHATE
TABLETS No.4

Each tablet contains: codeine phosphate 60 mg acetaminophen 300 mg

Rx only.

Janssen



## TYLENOL WITH CODEINE

acetaminophen and codeine phosphate tablet

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG LABEL	Item Code (Source)	NDC:50458- 513	
Route of Administration	ORAL	DEA Schedule	CIII	

Active Ingredient/Active Moiety			
Ingredient Name Basis of Strength Streng			
acetaminophen (acetaminophen)	a c e ta mino phe n	300 mg	
codeine phosphate (codeine anhydrous)	codeine phosphate	30 mg	

Inactive Ingredients				
Ingredient Name	Strength			
powdered cellulose				
magnesium stearate				
sodium metabisulfite				
starch, corn				

Product Characteristics				
Color WHITE Score no score				
Shape	ROUND	Size	11mm	
Flavor		Imprint Code	McNEIL;TYLENOL;CODEINE;3	
Contains				

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:50458-513-60	100 in 1 BOTTLE			
2	NDC:50458-513-80	1000 in 1 BOTTLE			

Marketing Information				
Marketing Category Application Number or Monograph Citation Marketing Start Date Marketing End Date				
ANDA	ANDA085055	08/17/1977		

## TYLENOL WITH CODEINE

acetaminophen and codeine phosphate tablet

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG LABEL	Item Code (Source)	NDC:50458- 515	
Route of Administration	ORAL	DEA Sche dule	CIII	

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
acetaminophen (acetaminophen)	a c e ta mino phe n	300 mg	
codeine phosphate (codeine anhydrous)	codeine phosphate	60 mg	

Inactive Ingredients				
Ingredient Name	Strength			
powdered cellulose				
magnesium stearate				
sodium metabisulfite				
starch, corn				

Product Characteristics				
Color WHITE Score no score				
Shape	ROUND	Size	11mm	
Flavor		Imprint Code	McNEIL;TYLENOL;CODEINE;4	
Contains				

Pa	ackaging			
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50458-515-60	100 in 1 BOTTLE		
2	NDC:50458-515-70	500 in 1 BOTTLE		

Marketing Information				
Marketing Category	Marketing Category Application Number or Monograph Citation		Marketing End Date	
ANDA	ANDA085055	08/17/1977		

# Labeler - Janssen Pharmaceuticals, Inc. (063137772)

Establishment			
Name	Address	ID/FEI	Business Operations
Janssen Ortho LLC		805887986	MANUFACTURE(50458-513, 50458-515)

Establishment				
Name	Address	ID/FEI	Business Operations	
Mallinckrodt Inc.		097722284	ANALYSIS(50458-513, 50458-515), API MANUFACTURE(50458-513, 50458-515)	

Establishment			
Name	Address	ID/FEI	Business Operations
Noramco Inc.		166506142	API MANUFACTURE(50458-513, 50458-515)

Establishment				
Name	Address	ID/FEI	<b>Business Operations</b>	
Ortho-McNeil-Janssen Pharmaceuticals, Inc.		063137772	ANALYSIS(50458-513, 50458-515)	

Revised: 5/2013 Janssen Pharmaceuticals, Inc.