

# **BUPRENORPHINE**, 2

(N\*)

Revision Date 2014-05-23 Print Date 2014-06-16 Version 1.13

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : BUPRENORPHINE, 2  $(N^*)$ 

Substance name : BUPRENORPHINE

buprenorphine

Substance No. : 257-950-6

Product code : 497074

Reference number : JNJ-16972852-AAA

R371605

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Active Pharmaceutical Ingredient

Substance/Mixture

#### 1.3 Details of the supplier of the safety data sheet

: Janssen Pharmaceutica NV Company

> Turnhoutseweg 30 2340 Beerse Belgium

Telephone : +3214602111 Telefax : +3214602841

E-mail address

Responsible/issuing person : SDSJanssen@its.jnj.com

#### 1.4 Emergency telephone number +32 14 60 24 44

#### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single H370: Causes damage to organs.

exposure, Category 1

exposure, Category 3

Reproductive toxicity, Category 2 H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.

Reproductive toxicity, Category 2 H362: May cause harm to breast-fed children. Target Organ Systemic Toxicant - Single H336: May cause drowsiness or dizziness.

#### Classification (67/548/EEC, 1999/45/EC)

Harmful R22: Harmful if swallowed.



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Harmful R42: May cause sensitisation by inhalation.

Irritant R43: May cause sensitisation by skin contact.

Toxic R39/23: Toxic: danger of very serious irreversible

effects through inhalation.

Harmful R62: Possible risk of impaired fertility.

R63: Possible risk of harm to the unborn child.

R64: May cause harm to breastfed babies.

R67: Vapours may cause drowsiness and

dizziness.

#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

H336 May cause drowsiness or dizziness.

H361fd Suspected of damaging fertility. Suspected

of damaging the unborn child.

H362 May cause harm to breast-fed children. H370 Causes damage to organs if inhaled.

Precautionary statements : **Prevention:** 

P201 Obtain special instructions before use.

P260 Do not breathe dust or mist.

P263 Avoid contact during pregnancy/ while

nursing.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and

water.

P304 + P340 IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable

for breathing.

Storage:

P405 Store locked up.

#### 2.3 Other hazards

according to Regulation (EC) No. 1907/2006



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May be absorbed via the skin. Substance or its vapour is narcotic.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Chemical nature : Solid

Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]	
BUPRENORPHINE	52485-79-7	<= 100	

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

If inhaled : If breathed in, move person into fresh air.

Artificial respiration and/or oxygen may be necessary.

Call a physician immediately.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off immediately with plenty of water.

Call a physician immediately.

Wash contaminated clothing before reuse.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 5 minutes. Remove contact lenses.

If eye irritation persists, consult a specialist.

If swallowed : If swallowed, rinse mouth with water (only if the person is

conscious).

Call a physician immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Nausea

Vomiting Sweating Dizziness headache Abdominal pain

Vertigo calming constipation weakness Shivering fit Small pupils

Severe allergic skin reactions, bronchiospasm and

anaphylactic shock

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Liver disorders Heart disease

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Water mist, Dry powder, Foam, Carbon dioxide (CO2), Sand,

Aqueous film forming foam (AFFF).

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Avoid generating dust; fine dust dispersed in air in sufficient

concentrations, and in the presence of an ignition source is a

potential dust explosion hazard. Heating can release

hazardous gases.

Hazardous combustion

products

: No hazardous combustion products are known

# 5.3 Advice for firefighters

Special protective equipment

for firefighters

: Firefighters must wear fire resistant personal protective

equipment. In the event of fire, wear self-contained breathing

apparatus.

Further information : Avoid dust formation. In the event of fire, cool tanks with water

spray.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Avoid dust formation. Avoid breathing dust.

Keep away from open flames, hot surfaces and sources of

ignition.

Refer to protective measures listed in sections 7 and 8.

Evacuate personnel to safe areas.

#### 6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.

Do not flush into surface water or sanitary sewer system.



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## 6.3 Methods and materials for containment and cleaning up

: Pick up and arrange disposal without creating dust. Methods for cleaning up

Sweep up and shovel into suitable containers for disposal.

Keep in properly labelled containers.

Keep in suitable, closed containers for disposal.

Treat recovered material as described in the section "Disposal

considerations".

#### 6.4 Reference to other sections

For personal protection see section 8., For disposal information, see section 13

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling : Ensure all equipment is electrically grounded before beginning

> transfer operations. To avoid thermal decomposition, do not overheat. For personal protection see section 8. Keep away from heat and sources of ignition. Avoid formation of dust and

aerosols.

Advice on protection against

fire and explosion

: Avoid dust formation. Keep away from heat and sources of

ignition.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

**Dust explosion class** : St1

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away

from heat and sources of ignition. Keep locked up.

: 15 - 30 °C Storage temperature

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this

substance/mixture.

#### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

	Components	CAS-No.	Value type	Control	Update	Basis	
_							



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		(Form of exposure)	parameters			
BUPRENORP HINE	52485-79- 7	TWA	0,0015 mg/m3		J&J OEL/PBOEL HHC	
BUPRENORP HINE	52485-79- 7	STEL	0,012 mg/m3		J&J OEL/PBOEL HHC	
BUPRENORP HINE	52485-79- 7	STV	0,015 mg/100cm <sup>2</sup>		J&J PBOEL- HHC list	
BUPRENORP HINE	52485-79- 7	PBOEL-HHC	3 B		J&J OEL/PBOEL HHC	
Further information		J&J has a hazard banding notation: PBOEL HHC. This substance is classified by J&J as being PBOEL HHC 3B.				
Further information		Notation DSEN: has the potential to cause delayed allergic skin reaction (sensitization), such as wheals and rashes				
Further information		Notation RSEN: has the potential to cause delayed allergic reactions(sensitization), such as shortness of breath, asthma and anaphylaxis.				
Further information	າ	Notation SKIN: has the potential for absorption via the skin.				

#### 8.2 Exposure controls

### **Engineering measures**

Engineering controls should be used as the primary means to control possible exposures. Use process enclosures, local exhaust ventilation or other engineering controls to keep exposure levels below recommended exposure limits.

### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber

Remarks : Long sleeve gloves Take note of the information given by the

producer concerning permeability and break through times, and of special workplace conditions (mechanical strain,

duration of contact).

Skin and body protection : closed work clothing

Long sleeved clothing

Respiratory protection : Engineering controls should always be the primary method of

controlling exposures.

If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection

factor will depend upon the risk assessment and air

concentrations, hazards, physical and warning properties of

substances present.



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Respirator with a full face mask

P3

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

**Environmental exposure controls** 

General advice : Should not be released into the environment.

Do not flush into surface water or sanitary sewer system.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance : crystalline, powder

Colour : white

Odour : odourless

Odour Threshold : No data available pH : No data available

Melting point/range : 210 °C

Boiling point/boiling range : No data available
Flash point : No data available
Evaporation rate : No data available

Flammability (solid, gas) : No information available.

Auto-ignition temperature : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Relative density : No data available
Density : No data available

Solubility(ies)

Water solubility : < 0,2 g/l

Partition coefficient: n-

octanol/water

: No data available

Ignition temperature : 460 °CMethod: M.I.T. Dust Cloud Godbert-Greenwald

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**METHOD** 

Thermal decomposition : 265 °C

Minimum T

560 kJ/kg

Viscosity

Viscosity, dynamic : No data available Viscosity, kinematic : No data available Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Burning number : 2, 20 °C, Air

100 °C, Air

Molecular weight : 467,65 g/mol

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None reasonably foreseeable.

#### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of dust explosion.

10.4 Conditions to avoid

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Carbon monoxide Nitrogen oxides (NOx)

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# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

### **Product**

Acute oral toxicity : LD50 rat: >= 600 mg/kg

LD50 mouse: 261 mg/kg

Narcotic

: No data available Acute inhalation toxicity

Acute dermal toxicity : No data available

Acute toxicity (other routes of : LD50 rat: 31 mg/kg

administration)

Application Route: intravenous injection

LD50 mouse: 24 mg/kg

Application Route: intravenous injection

#### Skin corrosion/irritation

### **Product**

No data available

# Serious eye damage/eye irritation

### **Product**

No data available

### Respiratory or skin sensitisation

#### **Product**

May cause sensitisation by inhalation and skin contact.

### Germ cell mutagenicity

# **Product**

Germ cell mutagenicity-

: In vitro tests showed mutagenic effects which were not observed with in vivo test.

Assessment

# Carcinogenicity

according to Regulation (EC) No. 1907/2006



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## **Product**

Species: rat

Application Route: Oral Exposure time: 27 months Dose: 57 mk/kg/day

Species: mouse

Application Route: Oral Exposure time: 86 weeks Dose: 100 mg/kg/day

Carcinogenicity -

: Animal testing did not show any carcinogenic effects.

Assessment

# Reproductive toxicity

### Toxicity to reproduction/fertility

Reproductive toxicity -

Assessment

: Suspected of damaging the unborn child.

No data available

# Reprod.Tox./Development/Teratogenicity

### **Product**

Teratogenicity - Assessment : Suspected of damaging fertility.

Effects on or via lactation

# STOT - single exposure

### **Product**

Assessment: May cause drowsiness or dizziness.

Assessment: Causes damage to organs.

### STOT - repeated exposure

No data available

### **Aspiration toxicity**

No data available

#### **Product**

Danger of resorption through skin

according to Regulation (EC) No. 1907/2006



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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

### **Product:**

Toxicity to fish : No data available

Toxicity to daphnia and other : No data available

aquatic invertebrates

Toxicity to algae : No data available

Toxicity to bacteria : No data available

### 12.2 Persistence and degradability

**Product:** 

Biodegradability : No data available

#### 12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : No data available

Partition coefficient: n-

octanol/water

: No data available

#### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

#### **Product:**

Environmental fate and

: No data available

pathways

Additional ecological

information

: No data available, No data available

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

: Must be incinerated in a suitable incineration plant holding a Product

permit delivered by the competent authorities.

In accordance with National, Federal, State and Local



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regulations.

# **SECTION 14: Transport information**

#### 14.1 UN number

ADN : 1544 ADR : 1544 RID : 1544 IMDG : 1544 IATA : 1544

# 14.2 Proper shipping name

ADN : ALKALOIDS, SOLID, N.O.S.

(buprenorphine)

ADR : ALKALOIDS, SOLID, N.O.S.

(buprenorphine)

RID : ALKALOIDS, SOLID, N.O.S.

(buprenorphine)

**IMDG** : ALKALOIDS, SOLID, N.O.S.

(buprenorphine)

IATA : ALKALOIDS, SOLID, N.O.S.

(buprenorphine)

#### 14.3 Transport hazard class

 ADN
 : 6.1

 ADR
 : 6.1

 RID
 : 6.1

 IMDG
 : 6.1

 IATA
 : 6.1

# 14.4 Packing group

### **ADN**

Packaging group : III
Classification Code : T2
Hazard Identification Number : 60
Labels : 6.1

# **ADR**

Packaging group : III
Classification Code : T2
Hazard Identification Number : 60
Labels : 6.1
Tunnel restriction code : (E)

#### **RID**

Packaging group : III
Classification Code : T2
Hazard Identification Number : 60
Labels : 6.1

#### **IMDG**

Packaging group : III
Labels : 6.1
EmS Number : F-A, S-A

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**IATA** 

Packing instruction (CAO) : 677
Packing instruction (PAX and : 670

CAO)

Packing instruction (LQ) : Y645
Packaging group : III
Labels : 6.1

14.5 Environmental hazards

**ADN** 

Environmentally hazardous : no

**ADR** 

Environmentally hazardous : no

RID

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

**IATA** 

Environmentally hazardous : no

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

## **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Major Accident Hazard Legislation

# 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

A Chemical Safety Assessment is not required for this substance.

#### **SECTION 16: Other information**

#### **Date and Number Formats**

This document uses the following notation for printing dates and numbers:

**Date:** Dec 31th, 2012 as 2012-12-31

according to Regulation (EC) No. 1907/2006



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**Numbers:** 123456,78 as 123 456,78

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