Mobic® Oral Suspension



Version Revision Date: MSDS Number: Date of last issue: -

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SECTION 1. IDENTIFICATION

Product name : Mobic® Oral Suspension

Synonyms : Active ingredient: Meloxicam <= 2 %

Mobic® ampoules, Movatec® ampoules, Mobicox® ampoules, Leutrol® ampoules, Niflamin® ampoules, Movalis® ampoules,

Movicox® ampoules

Product code : 000000029650

Manufacturer or supplier's details

Company name of supplier : Boehringer-Ingelheim Pharmaceuticals, Incorporated

Address : 900 Ridgebury Road

Ridgefield, Connecticut

06877-0368

Emergency telephone num-

: +1-800-424-9300 CHEMTREC Emergency Phone Number

CHEMTREC - 24 Hours

Routine Contact Number : (203) 778-7759

Recommended use of the chemical and restrictions on use

Recommended use : Solution for production of finished medicinal products.

Prepared by : Corp. Div. EHS & Sustainability / Global EHS Services

 $\underline{EHS\text{-}service@boehringer\text{-}ingelheim.com}}$

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification (Hazard Communication Standard (HCS) 29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS Label element (Hazard Communication Standard (HCS) 29 CFR 1910.1200)

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Meloxicam	71125-38-7	2

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SECTION 4. FIRST AID MEASURES

General advice : Remove from exposure, lie down.

Take off immediately all contaminated clothing.

Victim to lie down in the recovery position, cover and keep him

warm.

First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If inhaled : Keep patient calm, remove to fresh air, seek medical atten-

tion.

In case of skin contact : Wash off thoroughly with ample water.

Seek medical attention.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes under

running water with eyelids held open, consult an eye special-

ist.

If swallowed : Rinse mouth immediately and then drink plenty of water, seek

medical attention.

Most important symptoms and effects, both acute and

delayed

: None known.

Notes to physician : Observe the summary of product characteristics of proprietary

medicinal products

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Water

Dry chemical

Foam

Carbon dioxide (CO2)

Specific hazards during fire-

fighting

In case of fire and/or explosion do not breathe fumes.

Can be released in case of fire:

Carbon oxides

Nitrogen oxides (NOx)

Sulphur oxides

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus and chemical-

protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

: No hazards which require special first aid measures.

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

Keep container closed when not in use.

Conditions for safe storage : Protect from heat and direct sunlight.

Keep container tightly closed.

Jointless smooth floor

Materials to avoid : Keep away from food, drink and animal feedingstuffs.

Advice on Segregation

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Basis	Factor	Catergory	Values	Remark
4-Hydroxy-2-methyl-	ECL		2	150 μg/m3	
N-(5-methyl-2-					
thiazolyl)-2H-1,2-					
benzthiazine-3-					
carboxamide-1,1-					
dioxide					
71125-38-7					
	BIPC		1b		
FCL (BIPL Exposure Control Limit)					

Contains no substances with occupational exposure limit values.

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.

Hand protection Material : Chemical resistant gloves made of butyl rubber or nitrile rub-

ber category III according to EN 374.

Directive : Protective gloves against chemicals and micro-organisms

Eye protection : Safety glasses with side-shields

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Skin and body protection : Protective work clothing

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

practice.

Avoid contact with skin, eyes and clothing.

Hygiene measures : General industrial hygiene practice.

Wash hands and face before breaks and immediately after

handling the product.

Keep working clothes separately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : No data available

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : does not ignite

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : Not applicable

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Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Explosive properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: 4,175 mg/kg

Method: Calculation method

Components:

Meloxicam:

Acute oral toxicity : LD50 (Rat): = 83.5 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Not classified based on available information.

Components:

Meloxicam:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

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Meloxicam:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

Meloxicam:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

Meloxicam:

Genotoxicity in vitro : Test Type: Ames-test

Species: Salmonella typhimurium

Result: negative

: Test Type: HGPRT assay

Species: V79 cells (Chinese hamster)

Result: negative

Test Type: Chromosomal aberration test

Species: Human lymphocytes

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse Application Route: Oral Dose: 300 mg/kg

Remarks: In vivo tests did not show any chromosomal chang-

es.

Carcinogenicity

Not classified based on available information.

Components:

Meloxicam:

Species: Mouse

Application Route: Oral Exposure time: 48 month(s)

Dose: 8 mg/kg

Remarks: Did not show carcinogenic effects in animal experiments.

Species: Rat

Application Route: Oral Exposure time: 48 month(s)

Dose: 0,8 mg/kg

Remarks: Did not show carcinogenic effects in animal experiments.

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IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

Meloxicam:

Effects on fertility

Test Type: Study of Fertility and Early Embryonic Develop-

ment

Species: Rat Dose: 4 mg/kg

Application Route: Oral

Remarks: Did not show teratogenic effects in animal experi-

ments

Test Type: Study for Effects on Embryo-Fetal Development

Species: Rabbit Dose: 80 mg/kg Application Route: Oral

Remarks: Did not show teratogenic effects in animal experi-

ments

Test Type: Pre- and Postnatal development study

Species: Rat

NOAEL: < 0.125 mg/kg, F1: < 0.125 mg/kg

Effects on foetal develop-

ment

: Remarks: No data available

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Meloxicam: Species: Rat

NOAEL: = 0.4 mg/kg Application Route: Oral

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Exposure time: 52 weeks

Species: Rat NOAEL: < 1 mg/kg Application Route: Oral Exposure time: 18 months

Species: guinea pig NOAEL: = 1 mg/kg Application Route: Oral Exposure time: 52 weeks

Aspiration toxicity

Not classified based on available information.

Components:

Meloxicam:

No data available

Further information

Components:

Meloxicam:

Remarks: May cause harm to breastfed babies.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Meloxicam:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): = 50 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 13 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: No toxicity at the limit of solubility

Toxicity to algae : EC50 (Desmodesmus subspicatus): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus): = 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

: Remarks: No data available

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Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

: Remarks: No data available

Toxicity to bacteria : NOEC (activated sludge, industrial): > 1,000 mg/l

Method: OECD 209

Persistence and degradability

Components:

Meloxicam:

Biodegradability : Result: Not rapidly biodegradable

Biodegradation: 31.3 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Remarks: According to the results of tests of biodegradability

this product is not readily biodegradable.

Bioaccumulative potential

Components:

Meloxicam:

Bioaccumulation : Remarks: No appreciable bioaccumulation potential is to be

expected (log P(o/w) 1-3).

Partition coefficient: n-

octanol/water

: $\log Pow = 1.7$

Method: OECD Test Guideline 107

log Pow: = 0.2

Method: OECD Test Guideline 107

log Pow: = -0.3

Method: OECD Test Guideline 107

Mobility in soil

Product:

Distribution among environ-

mental compartments

: Remarks: No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Components:

Meloxicam:

Results of PBT and vPvB

assessment

: Non-classified vPvB substance Non-classified PBT substance

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Packs that cannot be cleaned should be disposed of in the

same manner as the contents.

Uncontaminated packaging can be recycled.

SECTION 14. TRANSPORT INFORMATION

International Regulation

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

Not applicable for product as supplied.

National Regulations

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

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Pennsylvania Right To Know

Non-hazardous galenic excipients Not Assigned 90 - 100 %

New Jersey Right To Know

Non-hazardous galenic excipients

Not Assigned
90 - 100 %
Meloxicam
71125-38-7
1 - 5 %

California Prop 65 : This product does not contain any chemicals known to State

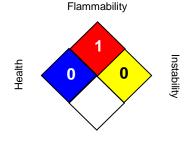
of California to cause cancer, birth defects, or any other re-

productive harm.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Special hazard.

HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Vertical lines in the left hand margin indicate an amendment from the previous version.

Sources of key data used to compile the Safety Data

: The specifications are based on own tests and/or literature

data.

Sheet

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.