SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: MELOXICAM, USP
PRODUCT CODE: 2746
SUPPLIER:
MEDISCA Inc.
Tel.: 1.800.932.1039 | Fax.: 1.855.850.5855
661 Route 3, Unit C, Plattsburgh, NY, 12901
3955 W. Mesa Vista Ave., Unit A-10, Las Vegas, NV, 89118
6641 N. Belt Line Road, Suite 130, Irving, TX, 75063

MEDISCA Pharmaceutique Inc.
Tel.: 1.800.665.6334 | Fax.: 514.338.1693
4509 Rue Dobrin, St. Laurent, QC, H4R 2L8
21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2

MEDISCA Australia PTY LTD
Tel.: 1.300.786.392 | Fax.: 61.2.9700.9047
Unit 7, Heritage Business Park
5-9 Ricketty Street, Mascot, NSW 2020

EMERGENCY PHONE
CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300
NSW Poisons Information Centre: 131 126

USES
Analgesic; Non-steroidal anti-inflammatory; cyclo-oxygenase inhibitor

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Acute Toxicity - Oral (Category 3)
Toxic to Reproduction (Category 2)
Specific Target Organ Toxicity - Repeated Exposure (Category 1) - (cardiovascular system, gastrointestinal tract)
Chronic Aquatic Toxicity (Category 3)

PICTOGRAM

SIGNAL WORD
Danger

HAZARD STATEMENT(S)
Toxic if swallowed
Suspected of damaging fertility or the unborn child
Causes damage to organs (cardiovascular system, gastrointestinal tract) through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects
Repeated exposure may cause skin dryness or cracking.

AUSTRALIA-ONLY HAZARDS
Wash thoroughly after handling
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Avoid release to the environment

PRECAUTIONARY STATEMENT(S)
Prevention
Wash thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/ vapors/spray
Wash thoroughly after handling
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves, protective clothing, eye protection, face protection
Avoid release to the environment

Response
IF SWALLOWED: Immediately call a poison center or medical professional; Rinse mouth.
IF EXPOSED OR CONCERNED: Get medical advice/attention.

Storage
Store locked up.
SAFETY DATA SHEET

Dispose of contents and/or container in accordance with local regulations.

<table>
<thead>
<tr>
<th>HMIS CLASSIFICATION</th>
<th>Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>E</td>
</tr>
</tbody>
</table>

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>4-Hydroxy-2-methyl-N-(5-methyl-2-thiazolyl)-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOTANICAL NAME</td>
<td>Not applicable</td>
</tr>
<tr>
<td>SYNonym</td>
<td>Not available</td>
</tr>
<tr>
<td>CHEMICAL FORMULA</td>
<td>C₁₄H₁₃N₃O₄S₂</td>
</tr>
<tr>
<td>CAS NUMBER</td>
<td>71125-38-7</td>
</tr>
<tr>
<td>ALTERNATE CAS NUMBER</td>
<td>Not applicable</td>
</tr>
<tr>
<td>MOLECULAR WEIGHT</td>
<td>351.4057</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>MELOXICAM</td>
<td>71125-38-7</td>
<td>100</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

NOTES

Chemical family: Enolic acid derivative.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT
Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

IN CASE OF SKIN CONTACT
Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED
Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician

SYMPTOMS AND EFFECTS
Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL
Explosion hazard: 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.

Dust explosion properties:
Minimum ignition energy (MIE) – dust cloud: 5 mJ (23.5°C)

FLAMMABLE PROPERTIES
May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS
Under fire conditions, hazardous fumes will be present.

EXTINGUISHING MEDIA
Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR CONTAINMENT

On land, sweep or shovel into suitable containers. Minimize generation of dust.

CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

STORAGE CONDITIONS

Store in original container, tightly sealed, protected from direct sunlight, in a dry and well-ventilated area, away from incompatible materials. Store in accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Preserve in well-closed containers. Protected from light. Store at room temperature.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: MELOXICAM    CAS #: 71125-38-7

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>MELOXICAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS #:</td>
<td>71125-38-7</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>TWA</th>
<th>Ceiling</th>
<th>STEL</th>
<th>REL</th>
<th>IDLH</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ACGIH TLV</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>NIOSH</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
</tr>
<tr>
<td>AIHA WEEL</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Safe Work Australia HSIS</td>
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<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>HSE</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

N/L = Not Listed

EXPOSURE GUIDELINES

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m3.

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fume hood, eye wash station, and safety shower.

NOTES

USP: STEL 0.75 mg/m3
USP: TWA 0.15 mg/m3
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PHYSICAL STATE</th>
<th>Solid</th>
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<tbody>
<tr>
<td>DESCRIPTION</td>
<td>Pale yellow powder.</td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>Practically insoluble in water; slightly soluble in acetone; soluble in dimethylformamide; very slightly soluble in ethanol (96%) and in methanol.</td>
</tr>
<tr>
<td>ODOR</td>
<td>Odorless</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>May be combustible at high temperature</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ODOR THRESHOLD</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>5 - 7</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>(243 - 264)°C, (469.4-507.2)°F (decomposes)</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>Not available</td>
</tr>
<tr>
<td>FREEZING POINT</td>
<td>(243 - 264)°C, (469.4-507.2)°F</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.07</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>Not available</td>
</tr>
<tr>
<td>LOWER FLAMMABLE/EXPLOSIVE LIMIT(S)</td>
<td>Not available</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>Not available</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>Not available</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>&lt; 0.0000001 kPa (25°C)</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>Not available</td>
</tr>
<tr>
<td>RELATIVE DENSITY (WATER = 1)</td>
<td>Not available</td>
</tr>
<tr>
<td>log P (OCTANOL-WATER)</td>
<td>0.1 (pH 7.4) (20° C)</td>
</tr>
<tr>
<td>AUTO-IGNITION TEMPERATURE</td>
<td>485 °C, 905 °F</td>
</tr>
<tr>
<td>VISCOSITY</td>
<td>Not available</td>
</tr>
<tr>
<td>DECOMPOSITION TEMPERATURE</td>
<td>(243 - 264)°C, (469.4-507.2)°F</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

| REACTIVITY | Not established |
| STABILITY  | Stable under recommended storage conditions |
| MATERIALS TO AVOID | Strong oxidants |
| HAZARDOUS DECOMPOSITION PRODUCTS | Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur |
| HAZARDOUS POLYMERIZATION | Will not occur |
| POSSIBILITY OF HAZARDOUS REACTION | Not established |
| CONDITIONS TO AVOID | Moisture, sunlight and extreme temperatures |

SECTION 11: TOXICOCLOGICAL INFORMATION

| ACUTE TOXICITY | Oral: Rat: LD50: (mg/kg): 83.5 |
|                | Dermat: Rabbit: LD50: (mg/kg): Not available |
|                | Inhalation: Rat: LD50: (mg/L/4hr): Not available |

| SKIN CORROSION/IRRITATION | Based on available data, the classification criteria are not met. |
### SAFETY DATA SHEET

#### SERIOUS EYE DAMAGE/EYE IRRITATION

Based on available data, the classification criteria are not met.

**Local effects**
- **Eye irritancy**
  - Result: Non-irritant.
  - Species: Rabbit

**Species: Rabbit**

#### RESPIRATORY OR SKIN SENSITIZATION

Respiratory sensitization: Due to lack of data the classification is not possible.

**Skin sensitization: Based on available data, the classification criteria are not met.**

**Sensitization**
- **Skin sensitization test**
  - Result: Non-sensitizing.
  - Species: Guinea pig

#### GERM CELL MUTAGENICITY

Due to lack of data the classification is not possible. Data from germ cell mutagenicity tests were not found.

**Mutagenicity**
- **Ames test**
  - Result: Negative.
- **Chromosomal aberration assay in human lymphocytes**
  - Result: Negative.
- **Mouse bone marrow micronucleus test**
  - Result: Negative.

#### CARCINOGENICITY

**OSHA**
- MELOXICAM is not listed.

**NTP**
- MELOXICAM is not listed.

**IARC**
- MELOXICAM is not evaluated.

**California Proposition 65**
- This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

#### ADDITIONAL CARCINOGENICITY INFORMATION

Based on available data, the classification criteria are not met.

0.8 mg/kg/day Long-term carcinogenicity study, administered orally.
- Result: Not carcinogenic.
  - Species: Rat
- **Test Duration:** 104 weeks

8 mg/kg/day Long-term carcinogenicity study, administered orally.
- Result: Not carcinogenic.
  - Species: Mouse
- **Test Duration:** 99 weeks

#### REPRODUCTIVE TOXICITY

Suspected of damaging fertility or the unborn child.

Therapeutic use of nonsteroidal anti-inflammatory agents (NSAIDs) during the second half of pregnancy is associated with adverse effects in the fetus such as premature closure of the ductus arteriosus, which may lead to persistent pulmonary hypertension in the newborn. Animal studies have shown that NSAIDs administered during late pregnancy can cause prolonged gestation, difficult labor, delayed birth, and decreased pup survival rates.

60 mg/kg/day Reproductivity and development study, administered orally during organogenesis.
- Result: Increased incidence of heart defects.
  - Species: Rabbit

> 1 mg/kg/day Reproductivity and development study, administered orally prior to and during early gestation.
- Result: Embryolethality.
  - Species: Rat

>= 5 mg/kg/day Reproductivity and development study, administered orally during organogenesis.
- Result: Embryolethality.
  - Species: Rabbit
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
Based on available data, the classification criteria are not met.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE
Causes damage to organs (cardiovascular system, gastrointestinal tract) through prolonged or repeated exposure.

ASPIRATION HAZARDS
Based on available data, the classification criteria are not met.

SIGNS AND SYMPTOMS OF EXPOSURE
Symptoms related to the physical, chemical, and toxicological characteristics

Delayed and immediate effects of exposure

Cross sensitivity
Persons sensitive to any of the non-steroidal anti-inflammatory drugs, including aspirin, may be sensitive to this material also. This material may cause bronchoconstriction or anaphylaxis in aspirin-sensitive asthmatics, especially those with aspirin-induced nasal polyps, allergies, and asthma.

Medical conditions aggravated by exposure

POTENTIAL HEALTH EFFECTS

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May be harmful if inhaled. May cause respiratory tract irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>Skin</td>
<td>May be harmful if absorbed through skin. May cause skin irritation.</td>
</tr>
<tr>
<td>Eyes</td>
<td>May cause eye irritation.</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY
EC50: 48 Hr: Daphnia magna: (mg/L): > 100
LC50: 96 Hr: Fish: (mg/L): 50
IC50: 72 Hr: Algae: (mg/L): Not available

PERSISTENCE AND DEGRADABILITY
Biodegradation: 31

BIOACCUMULATIVE POTENTIAL
LogPow: 0.1 (pH 7.4) (20°C)

MOBILITY IN SOIL
Water Solubility: 7.150 mg/L (25°C)
Henry’s Law Constant: 1.74E-19 atm-m³/mole (25°C)

OTHER ADVERSE EFFECTS
Not available

This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION
SAFETY DATA SHEET

UNITED STATES & CANADA
UN PROPER SHIPPING NAME
TOXIC SOLID, ORGANIC, N.O.S.
UN NUMBER
2811
CLASS
6.1
PACKING GROUP
III

AUSTRALIA
UN PROPER SHIPPING NAME
TOXIC SOLID, ORGANIC, N.O.S.
UN NUMBER
2811
CLASS
6.1
PACKING GROUP
III
HAZCHEM
2X

ENVIRONMENTAL HAZARDS
Not available
SPECIAL SHIPPING INFORMATION
Not applicable

SECTION 15: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name &amp; CAS</th>
<th>CERCLA 40 CFR Part 302.4</th>
<th>SARA (Title III) 40 CFR Part 372.65</th>
<th>EPA 40 CFR Part 355 Appendix A</th>
<th>Appendix B</th>
<th>Pennsylvania</th>
<th>Right-to-know New Jersey</th>
<th>Massachusetts</th>
<th>California Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>MELOXICAM, 71125-38-7</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
</tr>
</tbody>
</table>

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

<table>
<thead>
<tr>
<th>Chemical Name &amp; CAS</th>
<th>Poisons and Therapeutic Goods Regulation</th>
<th>Therapeutic Goods Act</th>
<th>Code of Practices - Illicit Drug Precursors</th>
</tr>
</thead>
<tbody>
<tr>
<td>MELOXICAM, 71125-38-7</td>
<td>N/L</td>
<td>Listed as Schedule 4</td>
<td>N/L</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

REFERENCES
Available upon request

ABBREVIATIONS AND ACRONYMS
CAS – Chemical Abstract Service; GHS – Global Harmonized System; OSHA PEL – Occupational Safety & Health Administration Permissible Exposure Limits; TWA – Time Weighted Average; HSIS – Hazardous Substances Information System; STEL – Short Term Exposure Limit; AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; LD50 – Lethal Dose, 50%; IARC – International Agency for Research on Cancer; NTP – National Toxicology Program; WHMIS – Workplace Hazardous Materials Information System; SARA – Superfund Amendments and Reauthorization Act; EPA – Environmental Protection Agency; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; HMIS – Hazardous Materials Information System; NIOSH – National Institute for Occupational Safety and Health; MSHA - Mine Safety and Health Administration; ACGIH - American Conference of Governmental Industrial Hygienists; IDHL - Immediately Dangerous to Health or Life; TLV – Threshold Limit Value; HSE – Health and Safety Executive; REL - Recommended Exposure Limit

LAST REVISION
05/2016

Last Revision: 05/2016
SUPERSEDES

02/2014

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.