# SAFETY DATA SHEET



# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Material RELIFEX TABLETS

Synonyms FLAMBATE TABLETS \* MEBUTAN TABLETS \* BALMOX TABLETS \*

RELIFEX TABLETS 400 MG \* RELIFEX TABLETS 500 MG \* RELIFEX TABLETS 750 MG \* RELIFEX TABLETS 1000 MG \* RELAFEN TABLETS \* NDC NO 0029-4851-20 \* NDC NO 0029-4851-21 \* NDC NO 0029-4852-20 \*

NABUMETONE, FORMULATED PRODUCT

Company Name GlaxoSmithKline, Corporate Environment, Health & Safety

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Multi-language response

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US number, available 24 hours Multi-language response

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients               | CAS RN     | Percentage |
|---------------------------|------------|------------|
| NABUMETONE                | 42924-53-8 | 78.9       |
| NON-HAZARDOUS INGREDIENTS | Unassigned | 21.1       |

## 3. HAZARDS IDENTIFICATION

**Fire and Explosion** Expected to be non-combustible.

**Health** Exposure might occur via skin; eyes; ingestion.

Caution - Pharmaceutical agent. Possible effects of overexposure in the workplace include: irritation; coughing; increased mucous secretion; headache; nausea; dizziness; sedation. Health effects information is based on hazards of components. Handling this product in its final form presents

minimal risk from occupational exposure.

**Environment** Dangerous for the environment. Very toxic to aquatic organisms.

## 4. FIRST-AID MEASURES

Ingestion Never attempt to induce vomiting. Do not attempt to give any solid or liquid

by mouth if the exposed subject is unconscious or semi-conscious. Wash out the mouth with water. If the exposed subject is fully conscious, give

plenty of water to drink. Obtain medical attention.

Inhalation Physical form suggests that risk of inhalation exposure is negligible.

**Skin Contact** Using appropriate personal protective equipment, remove contaminated

> clothing and flush exposed area with large amounts of water. Obtain medical attention if skin reaction occurs, which may be immediate or

delayed.

Wash immediately with clean and gently flowing water. Continue for at least **Eye Contact** 

15 minutes. Obtain medical attention.

NOTES TO HEALTH PROFESSIONALS

**Medical Treatment** Treat according to locally accepted protocols. For additional guidance, refer

> to the local poison control information centre. Medical treatment in cases of overexposure should be treated as an overdose of an anti-inflammatory.

**Medical Conditions Caused or Aggravated** 

by Exposure

None for occupational exposure.

**Antidotes** No specific antidotes are recommended.

FIRE-FIGHTING MEASURES

Fire and Explosion

**Hazards** 

Not expected for the product, although the packaging is combustible.

**Extinguishing Media** 

Water, dry powder or foam extinguishers are recommended. Carbon

dioxide extinguishers may be ineffective.

Special Firefighting **Procedures** 

For single units (packages): No special requirements needed. For larger amounts (multiple packages/pallets) of product: Since toxic, corrosive or flammable vapours might be evolved from fires involving this product and associated packaging, self contained breathing apparatus and full protective equipment are recommended for firefighters. If possible, contain and collect firefighting water for later disposal.

**Hazardous Combustion Products** 

Toxic, corrosive or flammable thermal decomposition products are

expected when the product is exposed to fire.

ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Wear protective clothing and equipment consistent with the degree of

hazard.

**Environmental Precautions** Prevent entry into waterways, sewers, surface drainage systems and poorly

ventilated areas.

**Clean-up Methods** Spread an inert absorbent on the spill and place in a suitable, properly

labelled container for recovery or disposal.

**Decontamination** 

**Procedures** 

No specific decontamination or detoxification procedures have been

identified for this product.

HANDLING AND STORAGE

**HANDLING** 

**General Requirements** Avoid breaking or crushing tablets.

**STORAGE** No storage requirements necessary for occupational hazards. Follow

product information storage instructions to maintain efficacy.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**INGREDIENT NABUMETONE** 

**GSK Occupational** 

**Hazard Category** 

**GSK Occupational Exposure Limit** 

1000 MCG/M3 (8 HR TWA)

Other Equipment or **Procedures** 

Wash hands and arms thoroughly after handling. None required for normal

handling.

# PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Colour Dark red.

**Physical Form** Film-coated tablet.

# 10. STABILITY AND REACTIVITY

**Stability** This product is expected to be stable. **Conditions to Avoid** None for normal handling of this product.

## 11. TOXICOLOGICAL INFORMATION

**Oral Toxicity** Not expected to be toxic following ingestion.

**Skin Effects** Irritation is not expected following direct contact.

Irritation is not expected following direct contact with eyes. **Eye Effects** 

**Target Organ Effects** No specific target organ effects have been identified.

Sensitisation Sensitisation (allergic skin reaction) is not expected.

**Genetic Toxicity** Not expected to be genotoxic under occupational exposure conditions.

No components are listed as carcinogens by GSK, IARC, NTP or US Carcinogenicity

OSHA.

**Reproductive Effects** Not expected to produce adverse effects on fertility or development under

occupational exposure conditions.

**Pharmacological Effects** This preparation contains ingredient(s) with the following activity: a

non-steroidal anti-inflammatory substance.

Adverse effects of overexposure might include: irritation; coughing; increased mucous secretion; headache; nausea; dizziness; sedation.

**Other Adverse Effects** None known for occupational exposure.

## 12. ECOLOGICAL INFORMATION

# \* Summary

This material contains an active pharmaceutical ingredient that has been tested, and which may be very toxic to aquatic organisms if released directly to the environment. Consult the MSDS of the active ingredient for specific information about potential environmental effects. Appropriate precautions should be taken to limit release of this mixture to the environment. Local regulations and procedures should be consulted prior to

environmental release.

Specific information on the active pharmaceutical ingredient is provided

below.

#### **ECOTOXICITY**

**Aquatic** 

Activated Sludge Respiration

No toxicity to sludge microorganisms was observed for the active

pharmaceutical ingredient in this mixture, but the upper range of the test

was limited by the low water solubility of the compound.

IC50: > 10 mg/L, 3 Hours, Residential sludge

**Microtox** Microtox is a general toxicity test which utilizes a sensitive marine photo

bacteria as the test species. This material contains an active pharmaceutical ingredient that is toxic to these microorganisms.

EC50: 0.4 mg/L, 15 Minutes

\* Algal This material contains an active pharmaceutical ingredient that is very toxic

to algae.

IC50: 0.68 mg/L, 96 Hours, Selenastrum capricornutum,

green algae, Static test

\* Daphnid This material contains an active pharmaceutical ingredient that is toxic to

daphids.

EC50: 3.5 mg/L, 48 Hours, Daphnia magna, Static test NOEL: 1.1 mg/L, 48 Hours, Daphnia magna, Static test

**Fish** No toxicity to fish was observed for the active pharmaceutical ingredient,

but the upper range of the test was limited by the low water solubility of the

compound.

Adult Lepomis macrochirus, bluegill sunfish

EC50: > 4.4 mg/L, 96 Hours, Static test

Adult Lepomis macrochirus, bluegill sunfish

NOEL: 1.4 mg/L, 96 Hours, Static test

**MOBILITY** 

\* **Solubility** This material contains an active pharmaceutical ingredient that for

environmental fate predictions has very low solubility in water.

**Volatility** This material contains an active pharmaceutical ingredient that will not

readily enter into air from water.

Henry's Law Constant < 1.00E-05 atm m^3/mol, Measured

\* Adsorption This material contains an active pharmaceutical ingredient that is not likely

to adsorb to sludge or biomass if released directly to the environment. This material contains an active pharmaceutical ingredient that is not likely to

adsorb to soil or sediment if released directly to the environment.

Soil Sediment Sorption 2.9, Calculated

(log Koc):

Sludge Biomass 1.62 Measured

Distribution Coefficient

(log Kd):

\* Partitioning This material contains an active pharmaceutical ingredient with

octanol/water partition coefficient data that suggests that for environmental

fate predictions the active pharmaceutical ingredient may have the

tendency to distribute into fats.

PERSISTENCE/DEGRADATION

Photolysis This material contains an active pharmaceutical ingredient that has been

shown to be chemically unstable in water when exposed to light. Aqueous

photolysis may be a significant depletion mechanism.

Half-Life, Aqueous: 58 Hours, Measured, Deionized Water

\* Biodegradation This material contains an active pharmaceutical ingredient that is not

readily biodegradable but is inherently biodegradable (as defined by 1993

OECD Testing Guidelines) and is not expected to persist in the

environment.

Aerobic - Inherent

Percent Degradation: 50 %, 2.1 hours, Batch activated sludge (BAS),

Activated sludge

\* BIOACCUMULATION This material contains an active pharmaceutical ingredient that will not have

a tendency to bioaccumulate in the food chain.

Bioconcentration Factor: 82 Calculated

## 13. DISPOSAL CONSIDERATIONS

Disposal

Recommendations

Collect for recycling or recovery if possible. The disposal method for rejected products/returned goods must ensure that they cannot be re-sold or

re-used.

**Regulatory Requirements** Observe all local and national regulations when disposing of this product.

# 14. TRANSPORT INFORMATION

The SDS should accompany all shipments for reference in the event of spillage or accidental release. Only authorised persons trained and competent in accordance with appropriate national and international regulatory requirements may prepare dangerous goods for transport.

## **UN Classification and Labelling**

**Transport Information** 

Transportation and shipping of this product is not restricted. It has no known, significant hazards requiring special packaging or labelling for air, maritime, US or European ground transport purposes.

## 15. REGULATORY INFORMATION

The information included below is an overview of the major regulatory requirements. It should not be considered to be an exhaustive summary. Local regulations should be consulted for additional requirements.

#### **EU Classification and Labelling**

Exempt from requirements of EU Dangerous Preparations directive - product regulated as a medicinal product, cosmetic product or medical device.

#### US OSHA Standard (29 CFR Part 1910.1200)

Classification This dosage form is exempt from the requirements of the OSHA Hazard

Communication Standard.

Other US Regulations

TSCA Status Exempt

# 16. OTHER INFORMATION

**References** GSK Hazard Determination

Date Approved/Revised 17-Dec-2004 SDS Version Number 11

SDS Sections Updated

**ECOLOGICAL INFORMATION** 

Sections Subsections

Activated Sludge Respiration

Adsorption

Algal

Bioaccumulation Biodegradation

# **SDS Sections Updated**

Sections

ECOLOGICAL INFORMATION

Daphnid
Fish
Microtox
Partitioning
Photolysis
Solubility

Summary Volatility

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.