



SAFETY DATA SHEET

1. Identification

Product identifier RYTHMOL SR EXTENDED RELEASE CAPSULES
Other means of identification Not available.
Synonym(s) RYTHMOL SR 225 MG EXTENDED RELEASE CAPSULES * RYTHMOL SR 325 MG EXTENDED RELEASE CAPSULES * RYTHMOL SR 425 MG EXTENDED RELEASE CAPSULES * NDC NO. 65726-261-15 * NDC NO. 65726-262-15 * NDC NO. 65726-263-15 * PROPAFENONE HYDROCHLORIDE, FORMULATED PRODUCT
Recommended use Medicinal Product

This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant to medicinal use of the product. In this instance patients should consult prescribing information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate safety data sheet for each ingredient.

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

GlaxoSmithKline US
5 Moore Drive
Research Triangle Park, NC 27709 USA
US General Information (normal business hours): +1-888-825-5249
Email Address: msds@gsk.com
Website: www.gsk.com
EMERGENCY PHONE NUMBERS -
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US / International toll call +1 703 527 3887
available 24 hrs/7 days; multi-language response

2. Hazard(s) identification

Classified hazards

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Label elements

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Hazard(s) not otherwise classified (HNOC)

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

3. Composition/information on ingredients

Mixtures

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
PROPAFENONE HYDROCHLORIDE	GF119411A 2'-(2-HYDROXY-3-(PROPYLAMINO)PROPO HYDROCHLORIDE	34183-22-7	96

Hazardous components				
Chemical name	Common name and synonyms	CAS number	%	
HYDROXYPROPYL METHYL CELLULOSE	METHOCEL K4M	9004-65-3	3	
	GONIOSOL			
	ISOPRO ALKALINE			
	ISOPTO PLAIN			
	ISOPTO TEARS			
	METHOCEL E,F,K			
	METHOCEL HG			
	METHYL CELLULOSE PROPYLENE			
	GLYCOL ETHER			
	HYPROMELLOSE			
	TEARISOL			
	ULTRA TEARS			
	RTECS NF9125000			
	CELLULOSE, 2-HYDROXYPROPYL METHYL ESTER			
	METHYLHYDROXYPROPYLCELLULOSE PHARMACOAT 603			
MAGNESIUM STEARATE	OCTADECANOIC ACID, MAGNESIUM SALT STEARIC ACID, MAGNESIUM SALT MAGNESIUM DISTEARATE DIBASIC MAGNESIUM STEARATE MAGNESIUM DISTEARATE, PURE OCTADECANOIC ACID MAGNESIUM SALT MAGNESIUM OCTADECANOATE C36H70MGO4 OHS13505 RTECS WI4390000 MAGNESIUMDISTEARAT	557-04-0	1	

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

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.
Eye contact	Wash immediately with clean and gently flowing water. Continue for at least 15 minutes. Obtain medical attention.
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.
Most important symptoms/effects, acute and delayed	The following adverse effects have been noted with therapeutic use of this material: irregular heartbeat; temporary decrease in white blood cell counts; sensation of bitter taste; dizziness; nausea; vomiting; constipation.
Indication of immediate medical attention and special treatment needed	No specific antidotes are recommended.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Toxic, corrosive or flammable thermal decomposition products are expected when the product is exposed to fire.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In the event of fire, cool tanks with water spray. 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.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Wear protective clothing and equipment consistent with the degree of hazard. For personal protection, see section 8 of the MSDS.

Methods and materials for containment and cleaning up Collect and place it in a suitable, properly labelled container for recovery or disposal. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS. No specific decontamination or detoxification procedures have been identified for this product.

Environmental precautions For large spills, take precautions to prevent entry into waterways, sewers, or surface drainage systems.

7. Handling and storage

Precautions for safe handling Avoid prolonged exposure. Avoid breaking or crushing capsules.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the MSDS). No storage requirements necessary for occupational hazards. Follow product information storage instructions to maintain efficacy.

8. Exposure controls/personal protection

Occupational exposure limits

GSK

Components	Type	Value	Note
HYDROXYPROPYL METHYL CELLULOSE (CAS 9004-65-3)	OHC	1	
MAGNESIUM STEARATE (CAS 557-04-0)	OHC	1	
PROPAFENONE HYDROCHLORIDE (CAS 34183-22-7)	OHC	2	>100 - <=1000 mcg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value
MAGNESIUM STEARATE (CAS 557-04-0)	TWA	10 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas. An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site- or operation-specific risk assessment.

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Hand protection The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present.

Other Not normally needed.

Respiratory protection No personal respiratory protective equipment normally required.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations An occupational/industrial hygiene monitoring method has been developed for this material. For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional.

9. Physical and chemical properties

Appearance

Physical state Solid.
Form Solid. Capsule.
Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	This product is expected to be stable.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Health injuries are not known or expected under normal use. May be harmful if swallowed.
Inhalation	Health injuries are not known or expected under normal use. Inhalation of dusts may cause respiratory irritation.
Skin contact	Health injuries are not known or expected under normal use. Dust or powder may irritate the skin.
Eye contact	Health injuries are not known or expected under normal use. Dust or powder may irritate eye tissue.

Symptoms related to the physical, chemical and toxicological characteristics The following adverse effects have been noted with therapeutic use of this material: irregular heartbeat; temporary decrease in white blood cell count; sensation of bitter taste; dizziness; nausea; vomiting; constipation.
No specific target organ effects have been identified.

Information on toxicological effects

Acute toxicity May be harmful if swallowed.

Components	Species	Test Results
HYDROXYPROPYL METHYL CELLULOSE (CAS 9004-65-3)		
Acute		
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
MAGNESIUM STEARATE (CAS 557-04-0)		
Acute		
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg

Components	Species	Test Results
PROPAFENONE HYDROCHLORIDE (CAS 34183-22-7)		
Acute <i>Oral</i>	Rat	700 mg/kg
* Estimates for product may be based on additional component data not shown.		
Skin corrosion/irritation	Health injuries are not known or expected under normal use.	
Irritation Corrosion - Skin: P.I.I. value		
MAGNESIUM STEARATE	0	
Serious eye damage/eye irritation	Health injuries are not known or expected under normal use. Dust or powder may irritate eye tissue.	
Eye / Kay and Calandra class - Intact		
MAGNESIUM STEARATE	4	Recovery Period: 2 days
Respiratory sensitization	Not available.	
Skin sensitization	Health injuries are not known or expected under normal use.	
Maximisation assay (Magnusson and Kligman)		
HYDROXYPROPYL METHYL CELLULOSE	Result: Negative	Species: Guinea pig
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
PROPAFENONE HYDROCHLORIDE	Ames Assay, Literature data Result: Negative Chromosomal Aberration Assay In Vitro, human lymphocytes, Literature data Result: Negative Chromosomal Aberration Assay In Vivo, bone marrow, Literature data Result: Negative Species: Hamster Chromosomal Aberration Assay In Vivo, bone marrow, Literature data Result: Negative Species: Rat Chromosomal Aberration Assay In Vivo; germ cells, Literature data Result: Negative Species: Hamster Dominant lethal assay, Literature data Result: Negative Species: Mouse Micronucleus Assay, Literature data Result: Negative Species: Hamster Micronucleus Assay, Literature data Result: Negative Species: Rat	
Carcinogenicity	Health injuries are not known or expected under normal use.	
PROPAFENONE HYDROCHLORIDE	2 year bioassay, Literature data Result: Negative Species: Mouse 2 year bioassay, Literature data Result: Negative Species: Rat	
Reproductive toxicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. This product is not expected to cause reproductive or developmental effects.	
PROPAFENONE HYDROCHLORIDE	Embryo-foetal development - Oral, Literature data Result: LOAEL (foetal effects) = 15 mg/kg/day (increased post-implantation loss, no maternal effect) Species: Rabbit Embryo-foetal development - Oral, Literature data Result: Maternal and foetal toxicity (no evidence of malformations) with dose of 150 mg/kg/day Species: Rabbit	

Embryo-foetal development - Oral, Literature data
 Result: Maternal and foetal toxicity (no evidence of malformations) with doses of 600 mg/kg/day
 Species: Rat
 Embryo-foetal development - Oral, Literature data
 Result: NOAEL (maternal and foetal) = 270 mg/kg/day
 Species: Rat
 Fertility, Literature data
 Result: NOAEL (oral) / fertility = 270 mg/kg/day (maximum dose; 3X equivalent of recommended maximum human therapeutic dose)
 Species: Rat

Specific target organ toxicity - single exposure None known.

Specific target organ toxicity - repeated exposure None known.

PROPAFENONE HYDROCHLORIDE

Repeat dose non-clinical studies
 Result: NOAEL = 90 mg/kg/day (equivalent to maximum recommended human dose); with doses of 180 mg/kg/day or more for 6 months adverse, but reversible, changes were observed in kidney; with doses of 270 mg/kg/day fatty degeneration of liver was observed
 Species: Rat
 Organ: kidney, liver

Aspiration hazard Not likely, due to the form of the product.

Further information Caution - Pharmaceutical agent.

12. Ecological information

Ecotoxicity No information is available about the potential of this product to produce adverse environmental effects.

Components	Species	Test Results
HYDROXYPROPYL METHYL CELLULOSE (CAS 9004-65-3)		
Aquatic		
<i>Acute</i>		
Fish	EC50	Fish > 100 mg/L, 96 hours
MAGNESIUM STEARATE (CAS 557-04-0)		
Aquatic		
<i>Acute</i>		
Fish	EC50	Orange-red killfish (Adult Oryzias latipes) 130 mg/l, 96 hours
Microtox	EC50	Microtox 12.5 mg/l, 15 minutes

* Estimates for product may be based on additional component data not shown.

Persistence and degradability

Photolysis

Half-life (Photolysis-atmospheric)

MAGNESIUM STEARATE 17 Hours Estimated

UV/visible spectrum wavelength

MAGNESIUM STEARATE 210 nm

Biodegradability

Percent degradation (Aerobic biodegradation-soil)

MAGNESIUM STEARATE 50 %, 13 days

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

HYDROXYPROPYL METHYL CELLULOSE -5

Bioconcentration factor (BCF)

HYDROXYPROPYL METHYL CELLULOSE 3.2 Estimated

MAGNESIUM STEARATE > 9999 Estimated

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

MAGNESIUM STEARATE 5.86 Estimated

Mobility in general

Volatility

Henry's law

HYDROXYPROPYL METHYL CELLULOSE

0 atm m3/mol Estimated

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Observe all local and national regulations when disposing of this product. 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.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	Not regulated as a dangerous good.
IATA	Not regulated as a dangerous good.
IMDG	Not regulated as a dangerous good.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine environment. These materials may not be transported in bulk.

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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SARA 302 Extremely hazardous substance	No
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SARA 311/312 Hazardous chemical	No
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Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.
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Food and Drug Administration (FDA)	Not regulated.
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US state regulations

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.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 11-06-2013

Revision date 11-06-2013

Version # 03

Further information Not available.

References GSK Hazard Determination

Disclaimer 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.

Revision Information Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Ingredients
Transport Information: Agency Name, Packaging Type, and Transport Mode Selection
Regulatory Information: United States
GHS: Classification