GF Healthcare

SAFETY DATA SHEET

New Zealand

Section 1. Identification

Product name Standard; part of 'Leukotriene B4

enzymeimunoassay system'

Catalogue Number RPN223

Component Number RPN223SA

Other means of identification Not available.

Product type Solid. Identified uses

Research and Development Analytical reagent. Analytical chemistry.

GE Healthcare UK Ltd GE Healthcare Bio-Sciences Amersham Place 8 Tangihua Street Little Chalfont Auckland 1010

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England

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Emergency telephone number (with hours of operation) Person who prepared the MSDS:

msdslifesciences@ge.com 0800 733 893

(10am - 7pm)

Section 2. Hazards identification

HSNO Classification 6.3 - SKIN IRRITATION - Category A

6.4 - EYE IRRITATION - Category A (Irritant)

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

GHS label elements

Warnina Signal word

Causes skin irritation. Hazard statements Causes serious eye irritation.

Precautionary statements

Wear protective gloves. Wear eye or face protection. Wash thoroughly after handling. Prevention

IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. Response

If skin irritation occurs, seek medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get

medical advice/attention. Wash hands after handling

Storage Not applicable. Not applicable. Disposal

Symbol

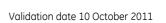


Other hazards which do not result in Not available. classification



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Section 3. Composition/information on ingredients

Substance/mixture Mixture
Other means of identification Not available

CAS number/other identifiers

CAS number Not applicable.
EC number Mixture.
Product code RPN223

Ingredient name%CAS numbertrometamol85.75577-86-1

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

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if

breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Ingestion Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight

clothing such as a collar, tie, belt or waistband.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to

rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for

and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

Ingestion Irritating to mouth, throat and stomach.

Skin contactCauses skin irritation.Eye contactCauses serious eye irritation.

Over-exposure signs/symptoms

InhalationNo specific data.IngestionNo specific data.

Skin Adverse symptoms may include the following:

irritation redness

Eyes Adverse symptoms may include the following:

pain or irritation watering redness

Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments Not available.

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person

may need to be kept under medical surveillance for 48 hours.

Protection of first-aidersNo action shall be taken involving any personal risk or without suitable training. It may be dangerous to

the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)



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Section 5. Fire-fighting measures

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known

Specific hazards arising from the

chemical

No specific fire or explosion hazard.

Hazardous thermal decomposition

products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides Not available.

Special precautions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or without suitable training.

Special protective equipment for

fire-fighters

Hazchem code

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste

container. Dispose of via a licensed waste disposal contractor.

Large spill Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water

courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency

contact information and section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should

be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use

appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Recommended monitoring

procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures



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Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking Hygiene measures and using the lavatory and at the end of the working period. Appropriate techniques should be used to

remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that

eyewash stations and safety showers are close to the workstation location.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk Respiratory protection

assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times

when handling chemical products if a risk assessment indicates this is necessary.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates Eye protection

this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection Personal protective equipment for the body should be selected based on the task being performed and

the risks involved and should be approved by a specialist before handling this product.

Section 9. Physical and chemical properties

Appearance

Physical state Solid. White. Color Odor Odorless. Not available. Odor threshold рΗ Not available. Not available. Melting point Not available. **Boiling point**

[Product does not sustain combustion.] Flash point

Burning rate Not available. Not available. **Burning time** Not available. **Evaporation rate**

Non-flammable in the presence of the following materials or conditions: open flames, sparks and static Flammability (solid, gas)

discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible

materials, organic materials, metals, acids, alkalis and moisture.

Lower and upper explosive

(flammable) limits

Not available.

Vapor pressure Not available. Not available. Vapor density Not available. Relative density

Easily soluble in the following materials: cold water and hot water. Solubility

Partition coefficient: n-

octanol/water

Not available

Auto-ignition temperature Not available Not available. **Decomposition temperature** Not available. SADT Not available. Viscosity

Aerosol product

Type of aerosol Not applicable. Heat of combustion Not available. Not applicable. Ignition distance **Enclosed space ignition - Time**

equivalent

Not applicable.

Enclosed space ignition -

Deflagration density

Not applicable.

Flame height Not applicable. Flame duration Not applicable.



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Section 10. Stability and reactivity

Chemical stability The product is stable.

Under normal conditions of storage and use, hazardous reactions will not occur. Possibility of hazardous reactions

Conditions to avoid No specific data. No specific data Incompatible materials

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed Inhalation

following exposure.

Ingestion Irritating to mouth, throat and stomach.

Skin contact Causes skin irritation. Causes serious eye irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics

No specific data. Inhalation Ingestion No specific data

Skin contact Adverse symptoms may include the following:

irritation redness

Adverse symptoms may include the following: Eye contact

pain or irritation watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
trometamol	LD50 Oral	Rat	>3000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
trometamol	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Severe irritant	Rabbit	-	-	-

Sensitization

Not available.

Potential chronic health effects

General No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Eye contact No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects

Chronic toxicity

Not available.

Carcinogenicity

Not available.



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Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity

Not available.

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Ecotoxicity No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Not available.

Persistence/degradability

Product/ingredient name Aquatic half-life **Photolysis** Biodegradability trometamol Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*
New Zealand Class	Not regulated.	-	-	-
ADG Class	Not regulated.	-	-	-
UN Class	Not regulated.	-	-	-
ADR/RID Class	Not regulated.	-	-	-
IATA Class	Not regulated.	-	-	-

IMDG Class Not regulated.



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PG*: Packing group

Section 15. Regulatory information

New Zealand Inventory of Chemicals All components are listed or exempted.

(NZIoC)

HSNO Approval Number HSR002569, HSR006669

HSNO Group Standard

Laboratory Chemicals and Reagent Kits

HSNO Classification

6.3 - SKIN IRRITATION - Category A
6.4 - EYE IRRITATION - Category A (Irritant)

Australia inventory (AICS)

All components are listed or exempted.

Safety, health and environmental regulations specific for the product

No known specific national and/or regional regulations applicable to this product (including its

ingredients).

Section 16. Other information

History

Date of printing11 October 2011Date of issue/ Date of revision10 October 2011Date of previous issue5/26/2011.

Version 1

Key to abbreviations ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland

Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

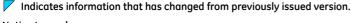
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by

the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

References Not available.



Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its

subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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