GF Healthcare

SAFETY DATA SHEET

New Zealand

Section 1. Identification

Product name Stop solution; part of 'IFNalpha, Human, Biotrak™

Easy ELISA, 96 wells'

Catalogue Number **RPN5960**

Component Number NIF2042

Other means of identification Not available. Product type Liquid.

Identified uses

Analytical chemistry. Laboratory chemicals Research and Development

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

Buckinghamshire HP7 9NA England

+44 0870 606 1921

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 8.2 - CORROSIVE TO DERMAL TISSUE - Category A

8.3 - CORROSIVE TO OCULAR TISSUE - Category A

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

Danger Signal word

Hazard statements Causes severe skin burns and eye damage.

Precautionary statements

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

Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce Response

vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED:

Remove to fresh air and keep at rest in a position comfortable for breathing.

Store locked up. Storage

Disposal Dispose of contents and container in accordance with all local, regional, national and international

regulations.

Symbol





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Other hazards which do not result in Not available.

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 231-633-2
Product code RPN5960

Ingredient name%CAS numberPhosphoric acid97664-38-2

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 Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable

for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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.

Ingestion Get medical attention immediately. 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. Chemical burns must be treated promptly by a physician. 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 Get medical attention immediately. Wash contaminated skin with soap and water. Remove

contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by

a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact Get medical attention immediately. 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. Chemical burns must be treated promptly by a physician.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Ingestion May cause burns to mouth, throat and stomach.

Skin contact Causes severe burns.

Eye contact Causes serious eye damage.

Over-exposure signs/symptoms

Inhalation No specific data.

Ingestion Adverse symptoms may include the following:

stomach pains

Skin Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Eyes Adverse symptoms may include the following:

pain watering redness

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

Specific treatments Not available.



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Notes to physician

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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 $% \left\{ 1,2,\ldots ,n\right\}$

chemical

Hazchem code

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition

products

Decomposition products may include the following materials:

phosphorus 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

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. Do not breathe vapor or mist. 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

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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 get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. 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. Separate from alkalis. 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.



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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name Exposure limits

Phosphoric acid

NZ OSH (New Zealand, 1/2002).

WES-TWA: 1 mg/m³ 8 hour(s).

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
If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust

ventilation or other engineering controls to keep worker exposure to airborne contaminants 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

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking

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.

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

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.

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

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 Liquid.

Color Colorless.

Odor Odorless.

Odor threshold Not available.

PH <1 [Conc. (% w/w): 100%]

Not available. Melting point Not available. **Boiling point** Not applicable. Flash point **Burning rate** Not applicable. Not applicable. **Burning time** Not available **Evaporation rate** Not available Flammability (solid, gas) Lower and upper explosive Not available

(flammable) limits

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

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

Partition coefficient: n-

octanol/water

Not available

 Auto-ignition temperature
 Not available.

 Decomposition temperature
 Not available.

 SADT
 Not available.

 Viscosity
 Not available.

Aerosol product



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Type of aerosol Not applicable.

Heat of combustion Not available.

Ignition distance Not applicable.

Enclosed space ignition - Time Not applicable.

equivalent

Enclosed space ignition - Deflagration density

Not applicable.

Flame height Not applicable.
Flame duration Not applicable.

Section 10. Stability and reactivity

Chemical stability The product is stable.

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

Conditions to avoid No specific data.

Incompatible materials Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures

with air

Reactive or incompatible with the following materials:

alkalis

Section 11. Toxicological information

Information on the likely routes of exposure

Inhalation May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Ingestion May cause burns to mouth, throat and stomach.

Skin contactCauses severe burns.Eye contactCauses serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data.

Ingestion Adverse symptoms may include the following:

stomach pains

Skin contact Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Eye contact Adverse symptoms may include the following:

pain watering redness

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

Acute toxicity

Product/ingredient nameResultSpeciesDoseExposurePhosphoric acidLD50 OralRat1.25 g/kg-

Irritation/Corrosion

Not available.

Sensitization

Not available.

Potential chronic health effects

GeneralNo known significant effects or critical hazards.InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.Eye contactNo known significant effects or critical hazards.



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CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Chronic toxicity

Not available.

Carcinogenicity

Not available.

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

 Route
 ATE value

 Oral
 13888.9 mg/kg

 Dermal
 27777.8 mg/kg

Section 12. Ecological information

Ecotoxicity No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Not available.

Persistence/degradability

Not available.

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.



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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

PG*: Packing group

Section 15. Regulatory information

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

(NZIoC)

HSR001545/HSR001571 **HSNO Approval Number**

HSNO Group Standard Not available.

HSNO Classification 8.2 - CORROSIVE TO DERMAL TISSUE - Category A 8.3 - CORROSIVE TO OCULAR TISSUE - Category A

Australia inventory (AICS) All components are listed or exempted

Safety, health and environmental

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

regulations specific for the product ingredients).

Section 16. Other information

History

4/18/2011. Date of printing 15 April 2011 Date of issue/ Date of revision

Date of previous issue No previous validation.

Version

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

Indicates information that has changed from previously issued version.

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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