GE Healthcare

SAFETY DATA SHEET

New Zealand

Section 1. Identification

Product name

Test Liquids (0-950 mg/l Ferric Sulfate); part of 'UV Test Kit, 254 nm, 2 mm Cell, No Acetone'

Catalogue Number

29-1585-54

Not available.

9 0 2 9 1 5 8 5 5 4

Other means of identification

Product type Liquid.

Identified usesUse in laboratories

Supplier

GE Healthcare UK Ltd Amersham Place Little Chalfont

Buckinghamshire HP7 9NA

England

+44 0870 606 1921

GE Healthcare Bio-Sciences

8 Tangihua Street Auckland 1010

Emergency telephone number (with hours of operation)

msdslifesciences@ge.com

Person who prepared the MSDS:

0800 733 893 (10am - 7pm)

Section 2. Hazards identification

HSNO Classification 6.7 - CARCINOGENICITY - 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

Signal word Danger

Hazard statements May cause cancer.

Precautionary statements

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Use personal protective equipment as required.

Response IF exposed or concerned: Get medical advice/attention.

Storage Store locked up.

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

regulations.

Symbol

Other hazards which do not result

in classification

None known.



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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 29-1585-54

Ingredient name%CAS numbersulphuric acid0.977664-93-9

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 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 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. 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. Wash

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

irritation occurs.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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.

Over-exposure signs/symptoms

InhalationNo specific data.IngestionNo specific data.SkinNo specific data.EyesNo specific data.

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

Specific treatments Not available.

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)



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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

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

Hazardous thermal decomposition

products

No specific data.

Hazchem code 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 spilt material. Avoid breathing vapour 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 spilt 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 the 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt 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. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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. Empty containers retain product residue and can be hazardous. Do not reuse container

Conditions for safe storage, including any incompatibilities Store between the following temperatures: 10 to 30°C (50 to 86°F). 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name

sulphuric acid NZ OSH (New Zealand, 2/2013). WES-TWA: 1 mg/m³ 8 hours.

Appropriate engineering controls If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust

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

Exposure limits

recommended or statutory limits.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the **Environmental exposure controls**

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

Individual protection measures



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

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 protection Use 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection:

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. Colour Colourless. Odour Odourless. Not available. Odour threshold рΗ Not available Not available Melting point Not available. **Boiling point** Flash point Not applicable. **Burning rate** Not applicable. **Burning time** Not applicable. **Evaporation rate** Not available. Flammability (solid, gas) Not available Lower and upper explosive Not available

(flammable) limits

Vapour pressure Not available. Vapour density Not available. Relative density Not available

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

Solubility in water Not available. Partition coefficient: n-octanol/ Not available.

water

Not available

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

Aerosol product

Type of aerosol Not applicable. Heat of combustion Not available **Janition 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.



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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 No specific data.

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

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.

Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.Skin contactNo specific data.Eye contactNo specific data.

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

Acute toxicity

Product/ingredient nameResultSpeciesDoseExposuresulphuric acidLD50 OralRat2140 mg/kg-

Irritation/Corrosion

Not available.

Sensitisation

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.

Carcinogenicity May cause cancer. Risk of cancer depends on duration and level of exposure.

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.



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Reproductive toxicity

Not available.

Specific target organ toxicity

NameCategoryRoute of exposureTarget organssulphuric acidCategory AInhalationNot determined

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

Product/ingredient nameResultSpeciesExposuresulphuric acidAcute LC50 42500 μg/l Marine waterCrustaceans - Pandalus montagui - Adult48 hoursAcute LC50 42 ppm Fresh waterFish - Gambusia affinis - Adult96 hours

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 minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt 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.	-	-	-
PG* : Packing group				_



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Section 15. Regulatory information

New Zealand Inventory of

Chemicals (NZIoC)

All components are listed or exempted.

HSNO Approval Number HSR002596

HSNO Group Standard Laboratory Chemicals and Reagent Kits **HSNO Classification** 6.7 - CARCINOGENICITY - Category A Australia inventory (AICS) All components are listed or exempted.

Safety, health and environmental regulations specific for the product ingredients).

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

Section 16. Other information

History

Date of printing 5 May 2015 Date of issue/ Date of revision 05 May 2015 8/28/2013. Date of previous issue

Version

Key to abbreviations ADN = 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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