# **GE** Healthcare

# SAFETY DATA SHEET

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC - Switzerland English

1. Identification of the substance/preparation and company/undertaking

Product name Rehydration Solution; part of 'DeStreak™ Starter

Kit'

Catalogue Number 11-0008-35

Hazard symbol or symbols

Emergency telephone number

+46 (0)8 331 231

Swedish Poisons Information Centre:

Harmful

Product type Liquid

Company/undertaking identification

**Supplier** GE Healthcare UK Ltd

Amersham Place Little Chalfont Buckinghamshire HP7 9NA

England

+44 0870 606 1921

**Person who prepared the MSDS:** msdslifesciences@ge.com

Switzerland GE Healthcare Bio-Sciences GmbH 0848 8028 12

Industriestr. 30 CH-8112 Otelfingen

Hazards identification

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Carc. Cat. 3; R40

Repr. Cat. 3; R63 R52/53

R52/

**Human health hazards** Eimited evidence of a carcinogenic effect. Possible risk of harm to the unborn child.

**Environmental hazards** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Substance/preparation Preparation

Ingredient name CAS number % EC number Classification Phiourea 62-56-6 200-543-5 Carc. Cat. 3; R40 Repr. Cat. 3; R63 Xn; R22 N; R51/53 2,2'-dithiobisethanol 1892-29-1 <1.5 217-576-6 T; R25 See section 16 for the full text of the R-phrases declared above Occupational exposure limits, if available, are listed in section 8.



Article Number 11000835-1

Validation date 21 August 2009



Page: 1/5

#### 4. First-aid measures

### First-aid measures

Inhalation

Move exposed person to fresh air. Keep person warm and at rest. 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. 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. Move exposed person to fresh air. Keep person warm and at rest. 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

Mush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Obtain medical attention if symptoms occur. 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.

Protection of first-aiders

 $\sqrt{8}$  o 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 section 11 for more detailed information on health effects and symptoms.

#### 5. Fire-fighting measures

### Extinguishing media

Suitable

Use an extinguishing agent suitable for the surrounding fire.

Not suitable

None known.

Special exposure hazards

 $^{
m lh}$  a fire or if heated, a pressure increase will occur and the container may burst.

Fromptly 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. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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.

#### 6. Accidental release measures

Personal precautions

 $\overline{\mathsf{M}}$ o 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** 

Kvoid 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).

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.

Small spill

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

#### 7. Handling and storage

Handling

Fut 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. Avoid exposure during pregnancy. 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. 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.

Storage

Article Number 11000835-1

Validation date 21 August 2009



Page: 2/5

Packaging materials

Recommended Use original container.

#### 8. Exposure controls/personal protection

Not available. **Exposure limit values** 

**Exposure controls** 

Hand protection

Occupational exposure controls Muser 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

recommended or statutory limits.

 $\overline{\mathbb{V}}$ se 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.

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 or dusts.

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

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

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.

**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

#### 9. Physical and chemical properties

### **General information**

**Appearance** 

Physical state Liquid Colourless Colour Odour Odourless

### Important health, safety and environmental information

Not considered to be a product presenting a risk of explosion. **Explosive properties** 

Solubility Not available.

#### 10. Stability and reactivity

The product is stable. Stability

Avoid exposure during pregnancy. Conditions to avoid

Materials to avoid No specific data.

#### Toxicological information 11.

## Potential acute health effects

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

following exposure.

No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Eye contact

Acute toxicity

Mutagenicity

Fertility effects

Reproductive toxicity

**Developmental effects** 

Product/ingredient name Result **Species** Dose Exposure **Phiourea** LD50 Intraperitoneal 436 mg/kg Rat LD50 Oral Rat 125 mg/kg TDI o Oral Rat 4 mg/kg 2,2'-dithiobisethanol LD50 Oral Rat 173 mg/kg

Conclusion/Summary Not available.

Potential chronic health effects

Chronic effects No known significant effects or critical hazards.

May cause cancer, based on animal data. Limited evidence of a carcinogenic effect. Risk of cancer Carcinogenicity

depends on duration and level of exposure. No known significant effects or critical hazards. May cause birth defects, based on animal data. No known significant effects or critical hazards. No known significant effects or critical hazards.



Article Number 11000835-1



Page: 3/5

Over-exposure signs/symptoms

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

Target organs Contains material which may cause damage to the following organs: blood, liver, skin, bone marrow, eye,

lens or cornea, thyroid.

# 12. Ecological information

**Environmental effects** 

Farmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Aquatic ecotoxicity** 

Product/ingredient nameTestResultSpeciesExposureFiniourea-Acute LC50 9000 toDaphnia - Water flea48 hours

18000 ug/L Fresh - Daphnia magna

wate

Conclusion/Summary Mot available.

Conclusion/Summary Not available.

<u>Product/ingredient name</u> <u>Aquatic half-life</u> <u>Photolysis</u> <u>Biodegradability</u>

Thiourea - - Not readily

Bioaccumulative potential

Product/ingredient nameLogPowBCFPotential₹hiourea-0.92<2</td>low

Other adverse effects No known significant effects or critical hazards.

# 13. Disposal considerations

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Empty containers or liners

may retain some product residues. This material and its container must be disposed of in a safe way. 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

spilt material and runoff and contact with soil, waterways, drains and sewers. The classification of the product may meet the criteria for a hazardous waste.

# 14. Transport information

## International transport regulations

Not classified.

Hazardous waste

# 15. Regulatory information

### **EU regulations**

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols



Marmful

**Risk phrases** R40- Limited evidence of a carcinogenic effect.

R63- Possible risk of harm to the unborn child.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S36/37- Wear suitable protective clothing and gloves.

Contains Thiourea 200-543-5

Product use Maustrial applications.

Europe inventory Mot determined.

Other EU regulations

Safety phrases

National regulations

VOC content Liberated.



Article Number

Page: 4/5

Validation date 21 August 2009



### 16. Other information

Full text of R-phrases referred to in

sections 2 and 3 - Switzerland

R40- Limited evidence of a carcinogenic effect. R63- Possible risk of harm to the unborn child.

R25- Toxic if swallowed.

R22- Harmful if swallowed.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 -Switzerland Carc. Cat. 3 - Carcinogen Category 3 Repr. Cat. 3 - Toxic to reproduction Category 3

T - Toxic Xn - Harmful

N - Dangerous for the environment



Indicates information that has changed from previously issued version.

<u>History</u>

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Notice to reader

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be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Article Number 11000835-1



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